


AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE See Block #2		PAGE OF PAGES 1 of 2	
2. AMENDMENT/MODIFICATION NO. 0003		3. EFFECTIVE DATE 11 JUL 2003		4. REQUISITION/PURCHASE REQ.NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY ESC/MAK CODE ELECTRONIC SYSTEMS CENTER AIR FORCE MATERIEL COMMAND, USAF 75 VANDENBERG DRIVE, BLDG. 1630 HANSCOM AFB, MA 01731-2119 LT. DAVID W. BENNETT JR (781)-377-6131 David.Bennett@hanscom.af.mil		7. ADMINISTERED BY (If other than Item 6) CODE FA8708					
<div style="border: 1px solid black; padding: 10px; display: inline-block;"> MAILING DATE JUL 11 2003 </div>				(X)		9A. AMENDMENT OF SOLICITATION NO. F19628-02-R-0056	
				X		9B. DATED (SEE ITEM 11)	
						10A. MODIFICATION OF CONTRACT/ORDER NO.	
						10B. DATED (SEE ITEM 13)	
CODE		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input checked="" type="checkbox"/> Is extended, <input type="checkbox"/> Is not extended.							
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning 0 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
13. THIS ITEM APPLIES ONLY TO MODIFICATION OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
(X) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: () THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. ITEM 10A.							
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).							
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) The purpose of this RFP amendment is to incorporate a TRD errata (Attachment 3A), change CDRLs to correct errors/inconsistencies based on offerors input, change Attachment 1 BMC2 Statement of Work to specify delivery of data related to SEMP, TPM, and CTRD via the DAL. See change bars on attachment for specific changes. Please see schedule for details.							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print).				16A. NAME AND TITLE OF SIGNER (Type or print) JOSEPH A. ZIMMERMAN			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
_____ (Signature of person authorized to sign)				BY  (Signature of Contracting Officer)		03 Jul 11	

SCHEDULE OF CHANGES

Section J. - List of Documents, Exhibits, and Other

Delete:

Exhibit C	09 JUNE 2003
Exhibit D	09 JUNE 2003
Exhibit E	09 JUNE 2003
ATTACHMENT 1	09 JUNE 2003

Add:

Exhibit C	11 JULY 2003
Exhibit D	11 JULY 2003
Exhibit E	11 JULY 2003
ATTACHMENT 1	10 JULY 2003
ATTACHMENT 3(A)	10 JULY 2003

Change page 26

FROM:

<u>Document</u>	<u>PGS</u>	<u>DATE</u>	<u>TITLE</u>
EXHIBIT A	24	09 JUNE 2003	CONTRACT DATA REQUIREMENTS LIST (CDRL) DD 1423 WSI PRE-SDD
EXHIBIT B	63	09 JUNE 2003	CONTRACT DATA REQUIRMENTS LIST (CDRL) DD 1423 WSI PRE-SDD
EXHIBIT C	25	09 JUNE 2003	CONTRACT DATA REQUIRMENTS LIST (CDRL) DD 1423 WSI SDD
EXHIBIT D	59	09 JUNE 2003	CONTRACT DATA REQUIRMENTS LIST (CDRL) DD FORM 1423 BMC2 SDD
EXHIBIT E	12	09 JUNE 2003	CONTRACT DATA REQUIRMENTS LIST (CDRL) BMC2 STATEMENT OF WORK
ATTACHMENT 1	9	09 JUNE 2003	BMC2 STATEMENT OF WORK
ATTACHMENT 3	TBD	09 JUNE 2003	E-10 A TECHNICAL REQUIREMENTS DOCUMENT (TRD) (TO BE PROVIDED UNDER SEPARATE COVER)
ATTACHMENT 4	TBD	20 MAY 2003	E-10 A TRD CLASSIFIED ANNEX (TO BE PROVIDED UNDER SEPARATE COVER)

TO:

<u>Document</u>	<u>PGS</u>	<u>DATE</u>	<u>TITLE</u>
EXHIBIT A	24	09 JUNE 2003	CONTRACT DATA REQUIREMENTS LIST (CDRL) DD 1423 WSI PRE-SDD
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SCHEDULE OF CHANGES

EXHIBIT D	59	09 JUNE 2003	CONTRACT DATA REQUIRMENTS LIST (CDRL) DD FORM 1423 BMC2 SDD
EXHIBIT E	12	09 JUNE 2003	CONTRACT DATA REQUIRMENTS LIST (CDRL) BMC2 STATEMENT OF WORK
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ATTACHMENT 3	TBD	09 JUNE 2003	E-10 A TECHNICAL REQUIREMENTS DOCUMENT (TRD) (TO BE PROVIDED UNDER SEPARATE COVER) PLEASE SEE ATTACHMENT 3(A) FOR ADDTIONAL CHANGES
ATTACHMENT 3(A)	4	09 JULY 2003	E-10 A TECHNICAL REQUIREMENTS DOCUMENT ERRATA SHEET (TO BE PROVIDED UNDER SEPARATE COVER)
ATTACHMENT 4	TBD	20 MAY 2003	E-10 A TRD CLASSIFIED ANNEX (TO BE PROVIDED UNDER SEPARATE COVER) PLEASE SEE ATTACHMENT 3(A) FOR ADDTIONAL CHANGES

EXHIBIT C

TO

CONTRACT F19628-03-C-0014

CLINs: 0003 and 0011 (RESERVED)

Contract Data Requirement List (CDRL)

FOR

**Multi-Sensor Command & Control Aircraft/
Battle Management Command & Control (MC2A/BMC2)**

11 July 2003

Prepared by:

**Multi-Sensor Command & Control Aircraft (MC2A) Weapon System Program Office
Electronic Systems Center ESC / MA
75 Vandenberg Drive – Bldg 1630
Hanscom AFB, MA 01730-2103**

EXHIBIT C

F19628-03-C-0014

MC2A/BMC2

INDEX

- A. General Instructions**
- B. Address List**
- C. Table of Contents**
- D. DD Forms 1423**

GENERAL INSTRUCTIONS

Contract F19628-03-C-0014

1. The attached Contract Data Requirements List (CDRL) identifies and defines the formal data deliverables for this contract. The data, which are associated with tasks delineated in the Technical Requirements Document (TRD), are deliverable under the Contract Line Item Numbers (CLINS).
 2. The following documents and regulations were used in the preparation of the CDRL, DD Form 1423, and are identified below for guidance and information purposes.
 - a. DoD 5010.12-L, DoD Acquisition Management System & Data Requirements Control (AMSDL) List.
 - b. DoD 5010.12-M, Procedures for the Acquisition and Management of Technical Data.
 - c. DoD 5230.24, 18 March 1987, Distribution Statements on Technical Documents.
 3. The contractor shall collect, prepare, and distribute the data in accordance with the CDRL or as called for by FAR and FAR supplement clauses of the contract. This will be done by the most economical method, i.e., reduce page count by printing on both sides of paper, etc., commensurate with the program needs.
 4. The data items on the CDRL are cross-reference in "Contract Reference", CDRL Block 5, to the associated Integrated Master Plan (IMP)
 5. The format instructions for preparation of each data item on the CDRL are given on applicable DD Forms 1664. DD Forms 1664 will be used by the contractor in fulfilling contract data requirements to the extent required by references on the CDRL. References contained in the DD Form 1664, Block 10, are contractually binding. Any comments, explanations, or limitations on an individual DD Form 1664 can be found by referring to the attached back-up sheets, or, if the tailoring is brief, by noting the comments contained in Block 16 of the CDRL referencing Block 4. In such cases, the letter "/T" (Tailored) has been suffixed to the DID number appearing in Block 4 of the CDRL format, for example (DI-A-3027/T).
- NOTE: Only the tailored applications of specifications and standards cited in the TRD are requirements for the accomplishment of tasks that result in the data reported in the CDRL. This tailoring of tasks is not repeated in the CDRL.
6. CDRL revisions will be noted on the revision sheet and also indicated on individual DD Form 1423s. Specific block changes can be identified by comparing present revision with previous entries.
 7. Approval code "A" in Block 8 of the DD Form 1423 indicates that the Air Force will provide written approval/disapproval of Contractor submissions unless otherwise stated in Block 16. The Air Force inherently has the right to disapprove any Contractor submissions even in the absence of an "A" in this block if the requirements of the DID are not met.
 8. Block 9 indicates that a distribution statement in accordance with DoD 5230.24 is required. DoD 5230.24 specifies certain distribution statements to be used on technical data subject to distribution. When the applicability of DoD 5230.24 is not indicated on the CDRL, or if the Contractor determines the imposed statement is too lenient or stringent, the Contractor will solicit from or recommend to the PCO appropriate statements from DoD 5230.24 based on the nature and content of the document, before effecting primary distribution.

9. Data items requiring Material Inspection and Receiving Reports, DD Form 250, will be submitted as "ORIGINAL" only, to the Technical Office. Final delivery of applicable data items will require DD Form 250s. The "ORIGINAL" DD Form 250 will be signed by the appropriate Government authority for acceptance.

10. Submit each original letter of transmittal to the MC2A Contracting Officer as follows:

ESC/MA
Attn: MC2A Contracting Officer
75 Vandenberg Drive
Hanscom AFB, MA 01731-2119

Also, one information copy of all data transmittal letters (not documentation) shall be forwarded to ESC/MA, Attn: Data Management Officer.

11. All Contractor correspondence and all DD Forms 250 relating to the CDRL items shall clearly identify document (s) delivered, and as a minimum shall include Contract Number, CDRL Sequence Number(s), Title of Document, and revision identification. Final delivery of each item will also be annotated on transmittal document.

12. Block 14 identifies each addressee and gives the number of copies (draft, regular and reproducible) to be received by each one (for example, ESC/MA - 1/1). If reproducible copies are required, the type of reproduction requested is given here or in Block 16 (offset, mat, vellum, negative, CD/DVD, magnetic tape, etc).

13. Unless otherwise specified, the submittal date stated on the CDRL format is the required date of arrival of the data at the office specified in Blocks 6 and 14 of the DD Form 1423. Due dates falling on non-working days (Saturday, Sunday) and Government (legal) holidays shall be construed to mean the next regular working day following such non-working days. Delivery dates are also interpreted to be the dates of data arrival at the specified addresses, except as specified in Contract Special Provisions. All due dates (e.g., 30 days after contract award) are calendar-counted. For electronic data submittal, unclassified data must be delivered via Hanscom AFB Livelihood on the date specified by the contract or CDRL. Receipt of data after that date will be considered delinquent.

14. Data requiring approval of the Procuring Agency as specified in the CDRL shall be approved in writing. Such approval shall be issued by the Contracting Officer, except as specified elsewhere in this contract. Data will be approved as specified in Block 16 of the DD Form 1423.

15. The Government reserves the right to approve data with comments, in which cases the Contractor shall submit change pages incorporating the Government requirements. If the comments require changes to more than 25% of the data in question, the Contractor shall submit a complete revision. Re-submissions shall be within 30 days or within the next required submittal, unless otherwise stated by the PCO or indicated on the DD Form 1423s. The JPO will issue a single/consolidated formal set of comments/changes to CDRL data that has been submitted for review/approval.

16. CDRL ITEM ELECTRONIC SUBMITTALS: Where indicated in Blocks 14/16 of the DD Form 1423, the Contractor shall complete an electronic submission of UNCLASSIFIED CDRL items to the Hanscom AFB Livelihood Document Management System. For tracking purposes, the date the CDRL item is transmitted electronically will be considered the "received" date.

Items placed on the DAL shall be provided through Northrop Grumman, Melbourne Livelink with proper markings (i.e., Limited Rights, Unlimited Rights, or Restricted Rights (computer software only)). Proprietary Rights are not a proper marking. Once an item is put on the DAL, the markings should not change. The Government will have electronic access to all data placed on the DAL and will download all items into the Hanscom Livelink on a quarterly basis at which time the DAL items will be considered "delivered".

Electronic signatures will be utilized whenever possible. Until electronic signature procedures are implemented, the Contractor shall forward one (1) original hard copy of all CDRL transmittal letters to ESC/JSK.

In the unlikely event the Hanscom AFB Livelink server cannot be accessed, and the data will become delinquent as a result, the designated Hanscom AFB Livelink System Administrator or designated Data Manager will be notified of the difficulty by the Contractor via phone, fax or e-mail.

The Government will provide the Contractor with password-protected accounts on the Hanscom AFB Livelink server but will not be responsible for the cost of any dial-up connection.

The Contractor will deliver the data and associated cover letter in Microsoft Office Professional Suite's native electronic format(s) as soon as native electronic format(s) or Portable Document Format (.pdf) with image on text/test searchable.

Deliver data and associated cover letter in Microsoft Office Professional Suite's native electronic, or .pdf format in: lucid and logical order as if data were a hardcopy, readable without manipulation, legible, with Table of Contents for any data that contains attachments or appendices via Hanscom AFB Livelink Document Management System. Electronic Format Table of Contents naming method will correspond with data cover letter.

The version of Microsoft Office Professional Suite and Microsoft Project must correspond with the version currently being used by the program office. The version of Microsoft Office used by the Government is Microsoft Office Professional Suite 2000. The version of Microsoft Project used by the Government is Project 98.

No password-protected documents will be accepted. Passwords, if any, need to be removed prior to document submittal.

17. Questions regarding preparation and contents of DD Form 1423s and their related backup sheets may be directed to the Data Manager, ESC/MA.

18. Government Responses To Contractor Delivered Data:

The Government will submit data to the Contractor via Hanscom AFB Livelink as it becomes available. Any CDRL responses sent to the Contractor that have attachments that are not in native format will be sent via hardcopy until the ability to print images is provided to the Contractor. Portable Document Format (.pdf) is acceptable. The date data is submitted to the Contractor will be the official response date of the Government. Electronic signatures will be utilized whenever possible.

ADDRESS LIST

ELECTRONIC SYSTEMS CENTER (ESC) ESC/MA

ESC/MA, ESC/MAK and/or ESC/MAX
ATTN: MC2A/WSI Program
75 Vandenberg Drive - Bldg 1630
Hanscom AFB, MA 01731-2103.

email: first.last@hanscom.af.mil

781-377-#### dsn: 478-####

DCMA

DCMA
ATTN: MC2A/WSI Program
2000 W. NASA Blvd
Melbourne, FL 32904-2322

email: first.last@dcma.af.mil

HQ 116th ACW

HQ 116th ACW
ATTN: MC2A/WSI Program
Robins AFB, GA

email: first.last@robins.af.mil

HQ WR-ALC/LKS

HQ WR-ALC/LKS
ATTN: MC2A/WSI Program
Robins AFB, GA

email: first.last@robins.af.mil

HQ ACC/DRRA

HQ ACC/DRRA
ATTN: MC2A/WSI Program
Langley AFB, VA

email: first.last@langley.af.mil

OLAT ESC JTF

OLAT ESC JTF
ATTN: MC2A/WSI Program Test Support
2000 W. NASA Blvd
Melbourne, FL 32904-2322

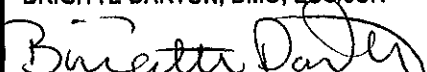
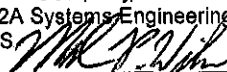
email: first.last@eglin.af.mil

EXHIBIT C

TABLE OF CONTENTS

CONTRACT NUMBER: F19628-03-C-0014

SEQUENCE NUMBER	DATA ITEM DESCRIPTION	TITLE/SUBTITLE
C001	DI-ADMIN-81401A/T	Contract Change Proposal
C002	DI-CMAN-80639C/T	Engineering Change Proposal (ECP)
C003	DI-ADMIN-80640C/T	Request for Deviation (RFD)
C004	DI-FNCL-81565/T	Cost Data Summary Report (DD Form 1921)/ Contractor Cost Data Reporting (CCDR)
C005	DI-MGMT-81334/T	Contract Work Breakdown Structure (CWBS)/ CCDR
C006	DI-FNCL-81566A/T	Functional Cost-Hour and Progress Curve Report (DD Form 1921-1)/CCDR
C007	DI-MGMT-81466/T	Cost Performance Report (CPR)
C008	DI-MGMT-81468/T	Contract Funds Status Report (CFSR)
C009	DI-MGMT-80004/T	Management Plan/Modeling and Simulation Support Plan
C010	DI-MGMT-81453/T	Data Accession List (DAL)/Internal Data
C011	DI-MISC-81183A/T	Integrated Master Schedule (IMS)
C012	DI-MISC-80711A/T	Scientific and Technical Reports/System Security Authorization Agreement (SSAA)
C013	DI-IPSC-81431A/T	System and Sub-System Specification/ Sub-System Specification (SSS)

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)					Form Approved OMB No. 0704-0188						
Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. Listed in Block E.											
A. CONTRACT LINE ITEM NO. 0003 and 0011 (Reserved)		B. EXHIBIT C		C. CATEGORY: TDP TM OTHER							
D. SYSTEM/ITEM MC2A/BMC2			E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR						
1. DATA/ITEM NO. C001		2. TITLE OF DATA ITEM Contract Change Proposal (CCP)			3. SUBTITLE						
4. AUTHORITY (Data Item Description No.) DI-ADMIN-81401A/T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/MA						
7. DD 250 REQ LT		9. DISTRIBUTION STATEMENT REQ'D C		10. FREQUENCY One Time		12. DATE OF FIRST SUBMISSION As Required					
8. APP CODE A		11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION As Required		14. DISTRIBUTION a. ADDRESSEE b. COPIES					
16. REMARKS Block 4: DD Form 1664, Block 10, is tailored as follows - Contractor format acceptable Block 8: Government Approval 45 Days after receipt Block 9: Distribution Statement C: "Distribution Authorized to U.S. Government Agencies and their Contractors (Administrative or Operational use) (21 Oct 94). Other requests for this document shall be referred to ESC/MA, 75 Vandenberg Drive, Hanscom AFB, MA 01731-2119" Block 14: For Electronic Submittal information, refer to CDRL General Instructions, Paragraph 16.						DRAFT		FINAL			
						ESC/MA		1		2	
						ESC/MAK*		*		*	
						DCMA		1		1	
						* Ltr Only					
15. Total						2 3					
G. PREPARED BY BRIGITTE DARTON, DMO, ESC/JSK 			H. DATE 11 July 2003		I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS 		J. DATE 11 July 2003				



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D. SYSTEM/ITEM MC2A/BMC2			E. CONTRACT / PR NO. F19628-03-C-0014		F. CONTRACTOR		
1. DATA / ITEM NO C002		2. TITLE OF DATA ITEM Engineering Change Proposal (ECP)			3. SUBTITLE		
4. AUTHORITY (Data Item Description No) DI-CMAN-80639C/T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/MA		
7. DD 250 REQ LT		9. DISTRIBUTION STATEMENT REQ'D C		10. FREQUENCY One Time		12. DATE OF FIRST SUBMISSION As Required	
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						FINAL	
						Reg	Repr o
						ESC/MA	1
						ESC/MAK*	*
						DCMA	1
						* Ltr Only	
						15. Total	2 3
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17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)						Form Approved OMB No. 0704-0188	
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4. AUTHORITY (Data Item Description No.) DI-ADMIN-80640C/T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/MA		
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				ESC/MAK*	*	*	
				DCMA	1	1	
				* Ltr Only			
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17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

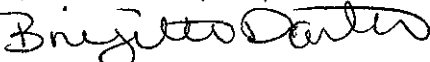

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4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81334/T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/ MA						
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED C		10. FREQUENCY AS REQ		12. DATE OF FIRST SUBMISSION SEE BLOCK 16					
8. APP CODE N/A		11. AS OF DATE SEE BLOCK 16		13. DATE OF SUBSEQUENT SUBMISSION SEE BLOCK 16		14. DISTRIBUTION					
16 REMARKS Block 4 Prepare in accordance with the CCDD Manual (DOD 5000.4-M-1) and the guidance in the Military Handbook 881, "Work Breakdown Structure for Defense Material Items." The responsible DoD office for receiving and storing all CCDD related formats is: Defense Cost and Resource Center (DCARC) 1111 Jefferson Davis Highway PO Box 005 Arlington, VA 22202 (703) 602-3169 Block 9: Distribution Statement C: "Distribution Authorized to U.S. Government Agencies and their Contractors (Administrative or Operational use) (21 Oct 94). Other requests for this document shall be referred to ESC/MA, 75 Vandenberg Drive, Hanscom AFB, MA 01731-2119" Block 11-13: Updates required prior to major milestone events or as requested by PCO. Block 14: Prepare CCDD data in electronic format in accordance with Data Item Description DI-FNCL-81565 For Electronic Submittal information, refer to CDRL General Instructions, Paragraph 16.						a. ADDRESSEE		b. COPIES			
						DRAFT		FINAL			
								Reg		Repr o	
ESC/MA ESC/MAK DCARC See Item 16 ESC/MAX								2			
								1			
								1			
						15 Total		0		5	
G. PREPARED BY BRIGITTE DARTON, DMO, ESC/JSK 			H. DATE 11 July 2003		I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS 			J. DATE 11 July 2003			

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)						Form Approved OMB No. 0704-0188					
Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.											
A. CONTRACT LINE ITEM NO. 0003 and 0011 (Reserved)		B. EXHIBIT C		C. CATEGORY: TDP TM OTHER X							
D. SYSTEM/ITEM MC2A/BMC2			E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR						
1. DATA ITEM NO. C006		2. TITLE OF DATA ITEM Functional Cost-Hour and Progress Curve Report (DD Form 1921-1)			3. SUBTITLE Contractor Cost Data Reporting (CCDR)						
4. AUTHORITY (Data Acquisition Document No.) DI-FNCL-81566A/T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/ MA						
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED C		10. FREQUENCY SEE BLOCK 16		12. DATE OF FIRST SUBMISSION SEE BLOCK 16					
8. APP CODE N/A		11. AS OF DATE SEE BLOCK 16		13. DATE OF SUBSEQUENT SUBMISSION SEE BLOCK 16		14. DISTRIBUTION					
16. REMARKS Block 4: Report at Level 4 of the WBS : Prepare in accordance with the approved CCDR Plan Provisions, WBS DATA Directory, and the CCDR Manual (DOD 5000.4-M-1). The responsible DoD office for receiving and storing all CCDR related formats is: Defense Cost and Resource Center (DCARC) 1111 Jefferson Davis Highway PO Box 005 Arlington, VA 22202 (703) 602-3169 Block 9: Distribution Statement C: "Distribution Authorized to U.S. Government Agencies and their Contractors (Administrative or Operational use) (21 Oct 94). Other requests for this document shall be referred to ESC/MA, 75 Vandenberg Drive, Hanscom AFB, MA 01731-2119" Block 10-13: Final report due 15 prior to end of Contract. Block 14: Prepare CCDR data in electronic format in accordance with Data Item Description DI-FNCL-81565 For Electronic Submittal information, refer to CDRL General Instructions, Paragraph 16.						a ADDRESSEE		b COPIES			
						DRAFT		FINAL			
								Reg		Repr o	
						ESC/MA		2			
						DCARC See Item 16		1			
						ESC/MAK		1			
						ESC/MAX		1			
						15 Total		0		5	
G. PREPARED BY BRIGITTE DARTON, DMO, ESC/JSK <i>Brigitte Darton</i>			H. DATE 11 July 2003		I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS <i>Mark P. Wilson</i>			J. DATE 11 July 2003			

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A. CONTRACT LINE ITEM NO. 0003 and 0011 (Reserved)		B. EXHIBIT C		C. CATEGORY: TDP TM OTHER X					
D. SYSTEM/ITEM MC2A/BMC2			E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR				
1. DATA ITEM NO. C007		2. TITLE OF DATA ITEM Cost Performance Report (CPR)			3. SUBTITLE				
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81466/T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/ MA				
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED C		10. FREQUENCY MONTHLY		12. DATE OF FIRST SUBMISSION SEE BLOCK 16			
8. APP CODE See BLK 16				11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION SEE BLOCK 16			
16. REMARKS Block 4: The contractor shall provide a monthly CPR except as modified per the following: The contractor shall explain variances of + or - 10% (or other amount deemed appropriate by program office) at Level 4 of the WBS in Format 5. The contractor shall report data at CWBS Level 4 (or other level deemed appropriate by program office) In addition to monthly formal CPR the contractor will also allow the government real time electronic access to on-line data via Winsight (or similar tool) down to Level 6. In addition, the contractor shall report major subcontractor information down to Level 4. The program office and the contractor shall identify major subcontractors. Block 8: Written Government approval is not required for each delivery of this data item, Government reserves the right to disapprove within 15 days, and submittal which is not current, accurate and complete. Block 9: Distribution Statement C: "Distribution Authorized to U.S. Government Agencies and their Contractors (Administrative or Operational use) (21 Oct 94). Other requests for this document shall be referred to ESC/MA, 75 Vandenberg Drive, Hanscom AFB, MA 01731-2119" Block 12: First submittal 25 DA completion of first full calendar month following contract award.						14. DISTRIBUTION			
						a. ADDRESSEE		b. COPIES	
								DRAFT	FINAL
								Reg	Repr
15. Total		0	0						
G. PREPARED BY BRIGITTE DARTON, DMO, ESC/JSK 			H. DATE 11 July 2003		I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS 		J. DATE 11 July 2003		

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CONTRACT DATA REQUIREMENTS LIST (1 Data Item)						Form Approved OMB No. 0704-0188	
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A. CONTRACT LINE ITEM NO. 0003 and 0011 (Reserved)		B. EXHIBIT C		C. CATEGORY: TDP TM OTHER X			
D. SYSTEM/ITEM MC2A/BMC2			E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR		
1. DATA ITEM NO. C007	2. TITLE OF DATA ITEM Cost Performance Report (CPR)				3. SUBTITLE		
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81466/T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/ MA		
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED D	10. FREQUENCY MONTHLY	12. DATE OF FIRST SUBMISSION SEE BLOCK 16		14. DISTRIBUTION		
8. APP CODE SEE BLK 16		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION SEE BLOCK 16		a. ADDRESSEE	b. COPIES	
						DRAFT	FINAL
16. REMARKS Blocks 12 & 13: Subsequent submittals of the CPR will be 24 working days after the close of the contractor's accounting month. Submissions will cease upon acceptance of the last major contract deliverable. Block 14: For electronic submittal information, refer to <i>CDRL General Instructions</i> , Paragraph 16.							
					ESC/MA		
					ESC/MAX		
					DCMDE-RJOA		
					ESC/MAK		
					15 Total	0	0
G. PREPARED BY BRIGITTE DARTON, DMO, ESC/JSK <i>Brigitte Darton</i>			H. DATE 11 July 2003		I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS <i>[Signature]</i>		J. DATE 11 July 2003

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CONTRACT DATA REQUIREMENTS LIST (1 Data Item)						Form Approved OMB No. 0704-0188		
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A. CONTRACT LINE ITEM NO. 0003 and 0011 (Reserved)		B. EXHIBIT C		C. CATEGORY: TDP TM OTHER X				
D. SYSTEM/ITEM MC2A/BMC2			E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR			
1. DATA ITEM NO. C008	2. TITLE OF DATA ITEM Contract Funds Status Report (CFSR)				3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81468T			6. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/ MA			
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED C	10. FREQUENCY QTRLY	12. DATE OF FIRST SUBMISSION SEE BLOCK 16		14. DISTRIBUTION			
8. APP CODE SEE BLK 16		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION SEE BLOCK 16		a. ADDRESSEE		b. COPIES	
16. REMARKS Block 4: Level of reporting will be CLIN (and if applicable Sub CLIN) level. Fund requirements will be segregated by the appropriate accounting classification and by fiscal year (i.e., 95/3010). The contractor shall reconcile the CFSR with the CPR.: Block 8: Written Government approval is not required for each delivery of this data item, Government reserves the right to disapprove within 15 days, and submittal which is not current, accurate and complete. Block 9: Distribution Statement D: "Distribution authorized to the Department of Defense and DOD Contractors only (Administrative/operational Purposes) (21 Oct 94). Other requests shall be referred to ESC/MA. Distribution Statement C: "Distribution Authorized to U.S. Government Agencies and their Contractors (Administrative or Operational use) (21 Oct 94). Other requests for this document shall be referred to ESC/MA, 75 Vandenberg Drive, Hanscom AFB, MA 01731-2119" Block 12: First report is to be submitted NLT 45 days after the end of the first accounting period. Block 13: Subsequent monthly submittals shall be delivered 29 working days after the end of each accounting quarter. Block 14: For electronic submittal information, refer to CDRL General Instructions, Paragraph 16.					Reg	Repr	0	
					ESC/MA		2	
					ESC/MAX		1	
					DCMDE-RJOA		1	
					ESC/MAK		1	
					15. Total			
G. PREPARED BY BRIGITTE DARTON, DMO, ESC/JSK <i>Brigitte Darton</i>			H. DATE 11 July 2003		I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS <i>[Signature]</i>		J. DATE 11 July 2003	

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A. CONTRACT LINE ITEM NO. 0003 and 0011 (Reserved)		B. EXHIBIT C		C. CATEGORY: TDP TM OTHER X			
D. SYSTEM/ITEM MC2A/BMC2			E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR		
1. DATA ITEM NO. C009	2. TITLE OF DATA ITEM Management Plan				3. SUBTITLE Modeling and Simulation Support Plan		
4. AUTHORITY (Data Item Description No.) DI-MGMT-80004/T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/MA		
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED C	10. FREQUENCY See Block 16	12. DATE OF FIRST SUBMISSION See Block 16	14. DISTRIBUTION			
8. APP CODE A		11. AS OF DATE See Block 16	13. DATE OF SUBSEQUENT SUBMISSION See Block 16	a. ADDRESSEE	b. COPIES		
					DRAFT	FINAL	
						Reg	Repr a
16. REMARKS <p>Block 9: Distribution Statement C: "Distribution Authorized to U.S. Government Agencies and their Contractors (Administrative or Operational use) (21 Oct 94). Other requests for this document shall be referred to ESC/MA, 75 Vandenberg Drive, Hanscom AFB, MA 01731-2119"</p> <p>Block 10-13: Initial submittal due 30 days prior to System IDR</p> <p>Block 4: Contractor Format Acceptable-Prefer Standard MS Office Products <u>MSSP Expectations:</u></p> <ul style="list-style-type: none"> Contractor shall develop, in collaboration with the Government, an MSSP MSSP that integrates M&S within program planning and execution activities across all function disciplines. The MSSP shall include the following: <ul style="list-style-type: none"> Detailed description of the use and reuse of contractor, Government, and shared M&S tools and facilities throughout system's lifecycle. Plan shall describe the development and use of a Distributed Product Description (DPD) for the E-10A program. <ul style="list-style-type: none"> E-10A and related system and function-specific characteristics data in input-ready format for EADSIM and other agreed-upon contractor tools. Government requests model outputs, test plans, operator surveys and event summary logs in agreed-to formats. 				ESC/MA	1	2	
				ESC/MAK*	*	*	
				DCMA	1	1	
				* Ltr Only			
				15. Total			
G. PREPARED BY BRIGITTE DARTON, DMO, ESC/JSK <i>Brigitte Darton</i>			H. DATE 11 July 2003		I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS <i>Mark P. Wilson</i>		J. DATE 11 July 2003

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A. CONTRACT LINE ITEM NO. 0003 and 0011 (Reserved)		B. EXHIBIT C	C. CATEGORY: TDP TM OTHER X				
D. SYSTEM/ITEM MC2A/BMC2		E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR			
1. DATA ITEM NO. C010	2. TITLE OF DATA ITEM Data Accession List (DAL)/ Internal Data			3. SUBTITLE			
4. AUTHORITY (Data Item Description No.) DI-MGMT-81453/T		5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/MA			
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED C	10. FREQUENCY Monthly	12. DATE OF FIRST SUBMISSION See Block 16	14. DISTRIBUTION			
8. APP CODE N/A		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION See Block 16	a. ADDRESSEE	b. COPIES		
					DRAFT	FINAL	
					Reg	Repr o	
16. REMARKS Block 4: DD Form 1664, Block 10, is tailored as follows: <ul style="list-style-type: none"> - Each successive submission shall contain a cumulative list of work generated - Contractor format acceptable. Block 9: Distribution Statement C: "Distribution Authorized to U.S. Government Agencies and their Contractors (Administrative or Operational use) (21 Oct 94). Other requests for this document shall be referred to ESC/MA, 75 Vandenberg Drive, Hanscom AFB, MA 01731-2119" Block 14: For Electronic Submittal information, refer to CDRL General Instructions, Paragraph 16. Block 12-13: Initial submittal due on the 15th day of the 1st calendar month after contract award; subsequent submittals due the 15th day of each calendar month thereafter.				ESC/MA	1	2	
				ESC/MAK*	*	*	
				DCMA	1	1	
				* Ltr Only			
				15. Total	2	3	

G. PREPARED BY BRIGITTE DARTON, DMO, ESC/JSK 		H. DATE 11 July 2003		I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS 		J. DATE 11 July 2003	
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17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

17. PRICE GROUP	
18. ESTIMATED TOTAL PRICE	

DI-MISC-80711A/T - System Security Authorization Agreement (SSAA) backup pages

DD Form 1664, Block 10, is tailored as follows:

The System Security Authorization Agreement will be developed in accordance with the content and format requirements specified in the DoDIIS Certification and Accreditation (C&A) Guide, dated April 2001.

Appendix A, Security Requirements Trace ability Matrix (SRTM), per DODIIS C&A Guide.

Appendix B, Certification Test Procedures, per DoDIIS C&A Guide.

Appendix C, Certification Test Report/Vulnerability Assessment, per DoDIIS C&A Guide.

Appendix D, Certification/Approval to Operate/Accreditation Documents, per DoDIIS C&A Guide.

Appendix E, Trusted Facility Manual (TFM), per DoDIIS C&A Guide. The TFM shall also include information addressing the following: the incident response plan, the contingency plan, the emergency destruction procedures, the trusted recovery procedures, the maintenance provisions, any special provisions for controlled interfaces (if any), and anti-tamper mechanisms.

Appendix F, Security Features User's Guide (SFUG), shall address the proper use of security functionality as well as the security-related responsibilities of non-privileged system users, both local and remote. This information may be submitted in contractor format and may be included in other user manuals.

Appendix G, Security Concept of Operations (SECONOPS), shall graphically depict the accreditation boundary of the MC2A and all interfaces. It shall describe the application and function of system security services/components to information flows and processing threads both internal and external to MC2A. Both normal and abnormal scenarios should be covered. This information may be submitted in contractor format.

Appendix H, Key Management Plan (KMP), shall address the full range of key-related management activities (e.g., ordering, distribution, loading, compromise recovery, and revocation) for all cryptographic elements employed by the system, both GOTS and COTS. If these topics are already documented elsewhere for a given cryptographic element, incorporation of relevant information by explicit and detailed reference to existing documentation is acceptable. For all other cases, the information may be submitted in contractor format.

Block 10: Frequency:

SRTM - Any changes in the contract, security requirements, or direction by the DAA may require revising the SRTM. These revisions shall be due 30 calendar days after the contractor is notified of the change.

Block 12: Date of First Submission

Draft SSAA (body) - due 90 calendar days after contract award.

Draft Appendix A: Security Requirements Trace ability Matrix (SRTM): First draft due 60 calendar days prior to SRR.

Draft Appendix B: Certification Test Procedures: First draft due 120 calendar days prior to TRR.

Draft Appendix C: Certification Test Report/Vulnerability Assessment: Quick Look Certification Test Report due 3 working days after Government-witnessed Certification Tests.

Draft Appendix D: Certification/Approval to Operate/Accreditation Documents: GFE – to be included in final SSAA.

Draft Appendix E: Trusted Facility Manual (TFM): First draft due 90 calendar days prior to FDR.

Draft Appendix F: Security Features User Guide (SFUG): First draft due 90 calendar days prior to FDR.

Draft Appendix G: Security Concept of Operations (SECONOPS): First draft due 60 calendar days prior to IDR.

Draft Appendix H: Key Management Plan (KMP): First draft due 30 days prior to IDR.

Form 1423, back up pages

Block 13: Date of Subsequent Submission

SSAA (body): Updated SSAA (body) due 30 days after receipt of Government comments. Revisions due 60 days prior to IDR and 60 days prior to FDR. Final SSAA, including ALL attachments and appendices, due 60 days after DAA approval.

C012

Appendix A: Security Requirements Trace ability Matrix (SRTM): Updated SRTM due 30 days after receipt of Government comments. Base lined SRTM due 30 days after completion of SRR.

Appendix B: Certification Test Procedures: Final due 30 days prior to conduct of Certification Tests.

Appendix C: Certification Test Report/Vulnerability Assessment: Final due 30 calendar days after completion of Certification Tests.

Appendix D: Certification/Approval to Operate/Accreditation Documents: GFE – to be included in final SSAA.

Appendix E: Trusted Facility Manual (TFM): Updated TFM due 60 days prior to TRR. Final TFM due at time of Certification Tests.

Appendix F: Security Features User Guide (SFUG): Updated SFUG due 60 days prior to TRR. Final due at time of Certification Tests.

Appendix G: Security Concept of Operations (SECONOPS): Updated SECONOPS due 30 days prior to FDR. Final due 30 days prior to TRR.

Appendix H: Key Management Plan (KMP): Updated KMP due 30 days prior to FDR. Final due 30 days prior to TRR.

EXHIBIT D

TO

CONTRACT F19628-03-C-0014

CLINs: 0003 and 0015 (RESERVED)

Contract Data Requirement List (CDRL)

FOR

**Multi-Sensor Command & Control Aircraft/
Battle Management Command & Control (MC2A/BMC2)**

11 July 2003

Prepared by:

**Multi-Sensor Command & Control Aircraft (MC2A) Weapon System Program Office
Electronic Systems Center ESC / MA
75 Vandenberg Drive – Bldg 1630
Hanscom AFB, MA 01730-2103**

EXHIBIT D

F19628-03-C-0014

MC2A/BMC2

INDEX

- A. General Instructions**
- B. Address List**
- C. Table of Contents**
- D. DD Forms 1423**

GENERAL INSTRUCTIONS

Contract F19628-03-C-0014

1. The attached Contract Data Requirements List (CDRL) identifies and defines the formal data deliverables for this contract. The data, which are associated with tasks delineated in the Technical Requirements Document (TRD) are deliverable under the Contract Line Item Numbers (CLINS).
 2. The following documents and regulations were used in the preparation of the CDRL, DD Form 1423, and are identified below for guidance and information purposes.
 - a. DoD 5010.12-L, DoD Acquisition Management System & Data Requirements Control (AMSDL) List.
 - b. DoD 5010.12-M, Procedures for the Acquisition and Management of Technical Data.
 - c. DoD 5230.24, 18 March 1987, Distribution Statements on Technical Documents.
 3. The contractor shall collect, prepare, and distribute the data in accordance with the CDRL or as called for by FAR and FAR supplement clauses of the contract. This will be done by the most economical method, i.e., reduce page count by printing on both sides of paper, etc., commensurate with the program needs.
 4. The data items on the CDRL are cross-reference in "Contract Reference", CDRL Block 5, to the associated Integrated Master Plan (IMP).
 5. The format instructions for preparation of each data item on the CDRL are given on applicable DD Forms 1664. DD Forms 1664 will be used by the contractor in fulfilling contract data requirements to the extent required by references on the CDRL. References contained in the DD Form 1664, Block 10, are contractually binding. Any comments, explanations, or limitations on an individual DD Form 1664 can be found by referring to the attached back-up sheets, or, if the tailoring is brief, by noting the comments contained in Block 16 of the CDRL referencing Block 4. In such cases, the letter "/T" (Tailored) has been suffixed to the DID number appearing in Block 4 of the CDRL format, for example (DI-A-3027/T).
- NOTE: Only the tailored applications of specifications and standards cited in the TRD are requirements for the accomplishment of tasks that result in the data reported in the CDRL. This tailoring of tasks is not repeated in the CDRL.
6. CDRL revisions will be noted on the revision sheet and also indicated on individual DD Form 1423s. Specific block changes can be identified by comparing present revision with previous entries.
 7. Approval code "A" in Block 8 of the DD Form 1423 indicates that the Air Force will provide written approval/disapproval of Contractor submissions unless otherwise stated in Block 16. The Air Force inherently has the right to disapprove any Contractor submissions even in the absence of an "A" in this block if the requirements of the DID are not met.
 8. Block 9 indicates that a distribution statement in accordance with DoD 5230.24 is required. DoD 5230.24 specifies certain distribution statements to be used on technical data subject to distribution. When the applicability of DoD 5230.24 is not indicated on the CDRL, or if the Contractor determines the imposed statement is too lenient or stringent, the Contractor will solicit from or recommend to the PCO appropriate statements from DoD 5230.24 based on the nature and content of the document, before effecting primary distribution.

9. Data items requiring Material Inspection and Receiving Reports, DD Form 250, will be submitted as "ORIGINAL" only, to the Technical Office. Final delivery of applicable data items will require DD Form 250s. The "ORIGINAL" DD Form 250 will be signed by the appropriate Government authority for acceptance.

10. Submit each original letter of transmittal to the MC2A Contracting Officer as follows:

ESC/MA
Attn: MC2A Contracting Officer
75 Vandenberg Drive
Hanscom AFB, MA 01731-2119

Also, one information copy of all data transmittal letters (not documentation) shall be forwarded to ESC/MA, Attn: Data Management Officer.

11. All Contractor correspondence and all DD Forms 250 relating to the CDRL items shall clearly identify document (s) delivered, and as a minimum shall include Contract Number, CDRL Sequence Number(s), Title of Document, and revision identification. Final delivery of each item will also be annotated on transmittal document.

12. Block 14 identifies each addressee and gives the number of copies (draft, regular and reproducible) to be received by each one (for example, ESC/MA - 1/1). If reproducible copies are required, the type of reproduction requested is given here or in Block 16 (offset, mat, vellum, negative, CD/DVD, magnetic tape, etc).

13. Unless otherwise specified, the submittal date stated on the CDRL format is the required date of arrival of the data at the office specified in Blocks 6 and 14 of the DD Form 1423. Due dates falling on non-working days (Saturday, Sunday) and Government (legal) holidays shall be construed to mean the next regular working day following such non-working days. Delivery dates are also interpreted to be the dates of data arrival at the specified addresses, except as specified in Contract Special Provisions. All due dates (e.g., 30 days after contract award) are calendar-counted. For electronic data submittal, unclassified data must be delivered via Hanscom AFB Livelihood on the date specified by the contract or CDRL. Receipt of data after that date will be considered delinquent.

14. Data requiring approval of the Procuring Agency as specified in the CDRL shall be approved in writing. Such approval shall be issued by the Contracting Officer, except as specified elsewhere in this contract. Data will be approved as specified in Block 16 of the DD Form 1423.

15. The Government reserves the right to approve data with comments, in which cases the Contractor shall submit change pages incorporating the Government requirements. If the comments require changes to more than 25% of the data in question, the Contractor shall submit a complete revision. Re-submissions shall be within 30 days or within the next required submittal, unless otherwise stated by the PCO or indicated on the DD Form 1423s. The JPO will issue a single/consolidated formal set of comments/changes to CDRL data that has been submitted for review/approval.

16. CDRL ITEM ELECTRONIC SUBMITTALS: Where indicated in Blocks 14/16 of the DD Form 1423, the Contractor shall complete an electronic submission of UNCLASSIFIED CDRL items to the Hanscom AFB Livelihood Document Management System. For tracking purposes, the date the CDRL item is transmitted electronically will be considered the "received" date.

Items placed on the DAL shall be provided through Northrop Grumman, Melbourne Livelink with proper markings (ie, Limited Rights, Unlimited Rights, or Restricted Rights (computer software only)). Proprietary Rights are not a proper marking. Once an item is put on the DAL, the markings should not change. The Government will have electronic access to all data placed on the DAL and will download all items into the Hanscom Livelink on a quarterly basis at which time the DAL items will be considered "delivered".

Electronic signatures will be utilized whenever possible. Until electronic signature procedures are implemented, the Contractor shall forward one (1) original hard copy of all CDRL transmittal letters to ESC/JSK.

In the unlikely event the Hanscom AFB Livelink server cannot be accessed, and the data will become delinquent as a result, the designated Hanscom AFB Livelink System Administrator or designated Data Manager will be notified of the difficulty by the Contractor via phone, fax or e-mail.

The Government will provide the Contractor with password-protected accounts on the Hanscom AFB Livelink server but will not be responsible for the cost of any dial-up connection.

The Contractor will deliver the data and associated cover letter in Microsoft Office Professional Suite's native electronic format(s) as soon as native electronic format(s) or Portable Document Format (.pdf) with image on text/test searchable.

Deliver data and associated cover letter in Microsoft Office Professional Suite's native electronic, or .pdf format in: lucid and logical order as if data were a hardcopy, readable without manipulation, legible, with Table of Contents for any data that contains attachments or appendices via Hanscom AFB Livelink Document Management System. Electronic Format Table of Contents naming method will correspond with data cover letter.

The version of Microsoft Office Professional Suite and Microsoft Project must correspond with the version currently being used by the program office. The version of Microsoft Office used by the Government is Microsoft Office Professional Suite 2000. The version of Microsoft Project used by the Government is Project 98.

No password-protected documents will be accepted. Passwords, if any, need to be removed prior to document submittal.

17. Questions regarding preparation and contents of DD Form 1423s and their related backup sheets may be directed to the Data Manager, ESC/MA.

18. Government Responses To Contractor Delivered Data:

The Government will submit data to the Contractor via Hanscom AFB Livelink as it becomes available. Any CDRL responses sent to the Contractor that have attachments that are not in native format will be sent via hardcopy until the ability to print images is provided to the Contractor. Portable Document Format (.pdf) is acceptable. The date data is submitted to the Contractor will be the official response date of the Government. Electronic signatures will be utilized whenever possible.

ADDRESS LIST

ELECTRONIC SYSTEMS CENTER (ESC) ESC/MA

ESC/MA, ESC/MAK and/or ESC/MAX
ATTN: MC2A/WSI Program
75 Vandenberg Drive - Bldg 1630
Hanscom AFB, MA 01731-2103.

email: first.last@hanscom.af.mil

781-377-#### dsn: 478-####

DCMA

DCMA
ATTN: MC2A/WSI Program
2000 W. NASA Blvd
Melbourne, FL 32904-2322

email: first.last@dcma.mil

HQ 116th ACW

HQ 116th ACW
ATTN: MC2A/WSI Program
Robins AFB, GA

email: first.last@robins.af.mil

HQ WR-ALC/LKS

HQ WR-ALC/LKS
ATTN: MC2A/WSI Program
Robins AFB, GA

email: first.last@robins.af.mil

HQ ACC/DRRA

HQ ACC/DRRA
ATTN: MC2A/WSI Program
Langley AFB, VA

email: first.last@langley.af.mil

OLAT ESC JTF

OLAT ESC JTF
ATTN: MC2A/WSI Program Test Support
2000 W. NASA Blvd
Melbourne, FL 32904-2322

email: first.last@eglin.af.mil

EXHIBIT D

TABLE OF CONTENTS

CONTRACT NUMBER: F19628-03-C-0014

SEQUENCE NUMBER	DATA ITEM DESCRIPTION	TITLE/SUBTITLE
D001	DI-ADMIN-81401A/T	Contract Change Proposal
D002	DI-CMAN-80639C/T	Engineering Change Proposal (ECP)
D003	DI-ADMIN-80640C/T	Request for Deviation (RFD)
D004	DI-FNCL-81565/T	Cost Data Summary Report (DD Form 1921)/ Contractor Cost Data Reporting (CCDR)
D005	DI-MGMT-81334	Contract Work Breakdown Structure (CWBS)/ CCDR
D006	DI-FNCL-81566A/T	Functional Cost-Hour and Progress Curve Report (DD Form 1921-1)/CCDR
D007	DI-MGMT-81466/T	Cost Performance Report (CPR)
D008	DI-MGMT-81468/T	Contract Funds Status Report (CFSR)
D009	DI-MGMT-80004/T	Management Plan/Modeling and Simulation Support Plan
D010	DI-MGMT-81453/T	Data Accession List (DAL)/Internal Data
D011	DI-MISC-81183A/T	Integrated Master Schedule (IMS)
D012	DI-SAFT-80101B/T	System Safety Hazard Analysis Report
D013	DI-SAFT-80102B/T	Safety Assessment Report
D014	DI-SAFT-80106B/T	Health Hazard Assessment Report
D015	DI-SAFT-80184A/T	Radiation Hazard Control Procedures
D016	DI-ILSS-81495/T	Failure, Mode, Effects Criticality Analysis (FMECA) Report
D017	RESERVED	
D018	RESERVED	

EXHIBIT D

TABLE OF CONTENTS

CONTRACT NUMBER: F19628-03-C-0014

SEQUENCE NUMBER	DATA ITEM DESCRIPTION	TITLE/SUBTITLE
D019	RESERVED	
D020	DI-MGMT-81117/T	Technical and Management Work Plan/ Obsolescence/DMS Management Plan
D021	RESERVED	
D022	RESERVED	
D023	DI-MISC-80711A/T	Scientific and Technical Reports/System Security Authorization Agreement (SSAA)
D024	DI-IPSC-81435A/T	Software Design Document
D025	DI-IPSC-81431A/T	System and Sub-System Specification/ Sub-System Specification
D026	DI-SESS-81520B/T	Instructional media Design Package
D027	DI-ALSS-81557/T	Special Equipment other Provisioning Part List
D028	DI-TMSS-80527/T	COTS Manuals and Associated Supplemental Data
D029	DI-IPSC-81443A/T	Software Users Manuals
D030	DI-NTDI-80566/T	Test Plan
D031	DI-NTDI-80809B/T	Test/Inspection Report
D032	DI-NTDI-80603/T	Test Procedures
D033	DI-IPSC-81441A/T	Software Product Specification (SPS)
D034	DI-IPSC-81442A/T	Software Version Description

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)					Form Approved OMB No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.						
A. CONTRACT LINE ITEM NO. 0003 and 0015 (Reserved)		B. EXHIBIT D	C. CATEGORY: TDP TM OTHER			
D. SYSTEM / ITEM MC2A/BMC2		E. CONTRACT / PR NO F19628-03-C-0014		F. CONTRACTOR		
1. DATA / ITEM NO. D001	2. TITLE OF DATA ITEM Contract Change Proposal (CCP)			3. SUBTITLE		
4. AUTHORITY (Data Item Description No.) DI-ADMIN-81401A/T		5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/MA		
7. DD 250 REQ LT	9. DISTRIBUTION STATEMENT REQ'D C	10. FREQUENCY One Time	12. DATE OF FIRST SUBMISSION As Required	14. DISTRIBUTION		
8. APP CODE A		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION As Required	a. ADDRESSEE	b. COPIES	
					DRAFT	FINAL
					Reg	Repr o
16. REMARKS Block 4: DD Form 1664, Block 10, is tailored as follows - Contractor format acceptable Block 8: Government Approval 45 Days after receipt Block 9: Distribution Statement C Distribution Authorized to U.S. Government Agencies and their Contractors (Administrative or Operational use) (21 requests for this document shall be referred to 75 Vandenberg Dr., Hanscom AFB, MA 01731-2119) Block 14: For Electronic submittal Information, refer to CDRL General Instructions, Paragraph 16.				ESC/MA	1	2
				ESC/MAK*	*	*
				DCMA	1	1
				* Ltr Only		
G. PREPARED BY BRIGITTE DARTON, DMO, ESC/JSK <i>Brigitte Darton</i>		H. DATE 11 July 2003		I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS <i>M.P. Wilson</i>		J. DATE 11 July 2003

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)						Form Approved OMB No. 0704-0188					
Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.											
A. CONTRACT LINE ITEM NO. 0003 and 0015 (Reserved)		B. EXHIBIT D		C. CATEGORY: TDP TM OTHER X							
D. SYSTEM/ITEM MC2A/BMC2			E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR						
1. DATA ITEM NO. D003		2. TITLE OF DATA ITEM Request for Deviation (RfD)				3. SUBTITLE					
4. AUTHORITY (Data Item Description No.) DI-ADMIN-80640C/T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/MA						
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED C		10. FREQUENCY One Time		12. DATE OF FIRST SUBMISSION As Required					
8. APP CODE A		11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION As Required		14. DISTRIBUTION					
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						DRAFT		FINAL			
						Reg		Repr		o	
						ESC/MA		1		2	
						ESC/MAK*		*		*	
						DCMA		1		1	
						* Ltr Only					
						15. Total		2		3 0	
G. PREPARED BY BRIGITTE DARTON, DMO, ESC/JSK <i>Brigitte Darton</i>			H. DATE 11 July 2003		I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS <i>[Signature]</i>			J. DATE 11 July 2003			

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18. ESTIMATED TOTAL PRICE

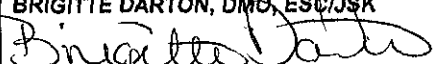
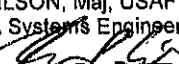
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A. CONTRACT LINE ITEM NO. 0003 and 0015 (Reserved)		B. EXHIBIT D		C. CATEGORY: TDP TM OTHER X					
D. SYSTEM/ITEM MC2A/BMC2			E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR				
1. DATA ITEM NO. D004		2. TITLE OF DATA ITEM Cost Data Summary Report (DD Form 1921)			3. SUBTITLE Contractor Cost Data Reporting (CCDR)				
4. AUTHORITY (Data Acquisition Document No.) DI-FNCL-81565/T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/ MA				
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED C		10. FREQUENCY ANNUALLY		12. DATE OF FIRST SUBMISSION SEE BLOCK 16			
8. APP CODE N/A		11. AS OF DATE SEE BLOCK 16		13. DATE OF SUBSEQUENT SUBMISSION SEE BLOCK 16		14. DISTRIBUTION			
16. REMARKS Block 4: Report at Level 4 of the WBS Prepare in accordance with the approved CCDR Plan Provisions, WBS DATA Directory, and the CCDR Manual (DOD 5000.4-M-1). The responsible DoD office for receiving and storing all CCDR related formats is: Defense Cost and Resource Center (DCARC) 1111 Jefferson Davis Highway PO Box 005 Arlington, VA 22202 Block 9: Distribution Statement C Distribution Authorized to U.S. Government Agencies and their Contractors (Administrative or Operational use) (21 requests for this document shall be referred to 75 Vandenberg Dr., Hanscom AFB, MA 01731-2119 Block 11-13: Initial and subsequent reports due 45 calendar days after end of contractor's calendar year. Block 14: Prepare CCDR data in electronic format in accordance with Data Item Description DI-FNCL-81565 For Electronic submittal Information, refer to CDRL General Instructions, Paragraph 16.						a. ADDRESSEE		b. COPIES	
						ESC/MA		2	
						DCARC See Item 16		1	
						ESC/MAK		1	
						ESC/MAX		1	
15. Total		0 5							
G. PREPARED BY BRIGITTE DARTON, DMO, ESC/JSK <i>Brigitte Darton</i>			H. DATE 11 July 2003		I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS <i>[Signature]</i>		J. DATE 11 July 2003		

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D. SYSTEM/ITEM MC2A/BMC2			E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR				
1. DATA ITEM NO. D005		2. TITLE OF DATA ITEM Contract Work Breakdown Structure (CWBS)			3. SUBTITLE Contractor Cost Data Reporting (CCDR)				
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81334/T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/ MA				
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED C		10. FREQUENCY AS REQ		12. DATE OF FIRST SUBMISSION SEE BLOCK 16			
8. APP CODE N/A		11. AS OF DATE SEE BLOCK 16		13. DATE OF SUBSEQUENT SUBMISSION SEE BLOCK 16		14. DISTRIBUTION			
16. REMARKS Block 4: Prepare in accordance with the CCDR Manual (DOD 5000.4-M-1) and the guidance in the Military Handbook 881, "Work Breakdown Structure for Defense Material Items." The responsible DoD office for receiving and storing all CCDR related formats is: Defense Cost and Resource Center (DCARC) 1111 Jefferson Davis Highway PO Box 005 Arlington, VA 22202 (703) 602-3169 Block 9: Distribution Statement C Distribution Authorized to U.S. Government Agencies and their Contractors (Administrative or Operational use) (21 requests for this document shall be referred to 75 Vandenberg Dr., Hanscom AFB, MA 01731-2119) Block 11-13: Updates required prior to major milestone events or as requested by PCO. Block 14: Prepare CCDR data in electronic format in accordance with Data Item Description DI-FNCL-81565 For Electronic submittal Information, refer to CDRL General Instructions, Paragraph 16.						a. ADDRESSEE		b. COPIES	
						ESC/MA		2	
						ESC/MAK		1	
						DCARC See Item 16		1	
						ESC/MAX		1	
						15. Total		0 5	
G. PREPARED BY BRIGITTE DARTON, DMO, ESC/JSK <i>Brigitte Darton</i>			H. DATE 11 July 2003		I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS <i>[Signature]</i>		J. DATE 11 July 2003		

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D. SYSTEM/ITEM MC2A/BMC2			E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR						
1. DATA ITEM NO. D006		2. TITLE OF DATA ITEM Functional Cost-Hour and Progress Curve Report (DD Form 1921-1)			3. SUBTITLE Contractor Cost Data Reporting (CCDR)						
4. AUTHORITY (Data Acquisition Document No.) DI-FNCL-81566A/T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/ MA						
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED C		10. FREQUENCY ANNUALLY		12. DATE OF FIRST SUBMISSION SEE BLOCK 16					
8. APP CODE N/A		11. AS OF DATE SEE BLOCK 16		13. DATE OF SUBSEQUENT SUBMISSION SEE BLOCK 16		14. DISTRIBUTION					
16. REMARKS Block 4: Report at Level 4 of the WBS : Prepare in accordance with the approved CCDR Plan Provisions, WBS DATA Directory, and the CCDR Manual (DOD 5000.4-M-1). The responsible DoD office for receiving and storing all CCDR related formats is: Defense Cost and Resource Center (DCARC) 1111 Jefferson Davis Highway PO Box 005 Arlington, VA 22202 (703) 602-3169 Block 9: Distribution Statement C Distribution Authorized to U.S. Government Agencies and their Contractors (Administrative or Operational use) (21 requests for this document shall be referred to 75 Vandenberg Dr., Hanscom AFB, MA 01731-2119 Block 11-13: Initial and subsequent reports due 45 calendar days after end of contractor's calendar year. Block 14: Prepare CCDR data in electronic format in accordance with Data Item Description DI-FNCL-81565 For Electronic submittal Information, refer to CDRL General Instructions, Paragraph 16.						a ADDRESSEE		b COPIES			
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								Reg		Repr o	
						ESC/MA				2	
						DCARC See Item 16				1	
						ESC/MAK				1	
						ESC/MAX				1	
15. Total		0		5							
G. PREPARED BY BRIGITTE DARTON, DMO, ESC/JSK 			H. DATE 11 July 2003		I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS 		J. DATE 11 July 2003				

17. PRICE GROUP

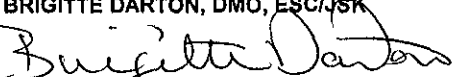

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CONTRACT DATA REQUIREMENTS LIST (1 Data Item)					Form Approved OMB No. 0704-0188	
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A. CONTRACT LINE ITEM NO. 0003 and 0015 (Reserved)		B. EXHIBIT D	C. CATEGORY: TDP TM OTHER X			
D. SYSTEM/ITEM MC2A/BMC2		E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR		
1. DATA ITEM NO. D007	2. TITLE OF DATA ITEM Cost Performance Report (CPR)			3. SUBTITLE		
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81466/T		5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/ MA		
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED C	10. FREQUENCY MONTHLY	12. DATE OF FIRST SUBMISSION SEE BLOCK 16	14. DISTRIBUTION		
8. APP CODE See BLK 16		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION SEE BLOCK 16	a. ADDRESSEE	b. COPIES	
					DRAFT	FINAL
					Reg	Repr o
16. REMARKS <p>Block 4: The contractor shall provide a monthly CPR except as modified per the following: The contractor shall explain variances of + or - 10% (or other amount deemed appropriate by program office) at Level 4 of the WBS in Format 5. The contractor shall report data at CWBS Level 4 (or other level deemed appropriate by program office) In addition to monthly formal CPR the contractor will also allow the government real time electronic access to on-line data via Winsight (or similar tool) down to Level 6. In addition, the contractor shall report major subcontractor information down to Level 4. The program office and the contractor shall identify major subcontractors.</p> <p>Block 8: Written Government approval is not required for each delivery of this data item, Government reserves the right to disapprove within 15 days, and submittal which is not current, accurate and complete.</p> <p>Block 9: Distribution Statement C Distribution Authorized to U.S. Government Agencies and their Contractors (Administrative or Operational use) (21 requests for this document shall be referred to 75 Vandenberg Dr., Hanscom AFB, MA 01731-2119</p> <p>Block 12: First submittal 25 DA completion of first full calendar month following contract award.</p>				ESC/MA		
				ESC/MAX		
				DCMDE-RJOA		
				ESC/MAK		
G. PREPARED BY BRIGITTE DARTON, DMO, ESC/JSK <i>Brigitte Darton</i>		H. DATE 11 July 2003		I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS <i>MPW</i>		J. DATE 11 July 2003

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CONTRACT DATA REQUIREMENTS LIST (1 Data Item)					Form Approved OMB No. 0704-0188	
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D. SYSTEM/ITEM MC2A/BMC2		E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR		
1. DATA ITEM NO. D007	2. TITLE OF DATA ITEM Cost Performance Report (CPR)			3. SUBTITLE		
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81466/T		6. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/ MA		
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED D	10. FREQUENCY MONTHLY	12. DATE OF FIRST SUBMISSION SEE BLOCK 16	14. DISTRIBUTION		
8. APP CODE SEE BLK 16		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION SEE BLOCK 16	a ADDRESSEE	b COPIES	
				DRAFT	FINAL	
					Reg	Repr o
16. REMARKS Blocks 12 & 13: Subsequent submittals of the CPR will be 24 working days after the close of the contractor's accounting month. Submissions will cease upon acceptance of the last major contract deliverable. Block 14: For electronic submittal information, refer to <i>CDRL General Instructions</i> , Paragraph 16.				ESC/MA		
				ESC/MAX		
				DCMDE-RJOA		
				ESC/MAK		
15 Total				0	0	
G. PREPARED BY BRIGITTE DARTON, DMO, ESC/JSK <i>Brigitte Darton</i>		H. DATE 11 July 2003	I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS <i>MC 50</i>		J. DATE 11 July 2003	

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)						Form Approved OMB No. 0704-0188					
Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.											
A. CONTRACT LINE ITEM NO. 0003 and 0015 (Reserved)		B. EXHIBIT D		C. CATEGORY: TDP TM OTHER X							
D. SYSTEM/ITEM MC2A/BMC2			E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR						
1. DATA ITEM NO. D008		2. TITLE OF DATA ITEM Contract Funds Status Report (CFSR)			3. SUBTITLE						
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81468T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/ MA						
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED C		10. FREQUENCY QUARTERLY		12. DATE OF FIRST SUBMISSION SEE BLOCK 16					
8. APP CODE SEE BLK 16		11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION SEE BLOCK 16		14. DISTRIBUTION					
16. REMARKS Block 4: Level of reporting will be CLIN (and if applicable SubClin) level. Fund requirements will be segregated by the appropriate accounting classification and by fiscal year (i.e., 95/3010). The contractor shall reconcile the CFSR with the CPR. Block 8: Written Government approval is not required for each delivery of this data item, Government reserves the right to disapprove within 15 days, and submittal which is not current, accurate and complete. Block 9: Distribution Statement D: "Distribution authorized to the Department of Defense and DOD Contractors only (Administrative/operational Purposes) (21 Oct 94). Other requests shall be referred to ESC/MA. Distribution Statement C: "Distribution Authorized to U.S. Government Agencies and their Contractors (Administrative or Operational use) 21 requests for this document shall be referred to 75 Vandenberg Dr., Hanscom AFB, MA 01731-2119" Block 12: First report is to be submitted NLT 45 days after the end of the first accounting period. Block 13: Subsequent monthly submittals shall be delivered 29 working days after the end of each accounting quarter. Block 14: For electronic submittal information, refer to CDRL General Instructions, Paragraph 16.						a. ADDRESSEE		b. COPIES			
						DRAFT		FINAL			
								Reg		Repr	
								0			
						ESC/MA		2			
						ESC/MAX		1			
						DCMDE-RJOA		1			
						ESC/MAK		1			
						15 Total		0		5	
G. PREPARED BY BRIGITTE DARTON, DMO, ESC/JSK 			H. DATE 11 July 2003		I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS 			J. DATE 11 July 2003			

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A. CONTRACT LINE ITEM NO. 0003 and 0015 (Reserved)		B. EXHIBIT D		C. CATEGORY: TDP TM OTHER <input checked="" type="checkbox"/>								
D. SYSTEM/ITEM MC2A/BMC2			E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR							
1. DATA ITEM NO. D009		2. TITLE OF DATA ITEM Management Plan			3. SUBTITLE Modeling and Simulation Support Plan							
4. AUTHORITY (Data Item Description No.) DI-MGMT-80004/T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/MA							
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED C		10. FREQUENCY See Block 16		12. DATE OF FIRST SUBMISSION See Block 16						
8. APP CODE A		11. AS OF DATE See Block 16		13. DATE OF SUBSEQUENT SUBMISSION See Block 16		14. DISTRIBUTION						
16. REMARKS Block 9: Distribution Statement C: "Distribution Authorized to U.S. Government Agencies and their Contractors (Administrative or Operational use) 21 requests for this document shall be referred to 75 Vandenberg Dr., Hanscom AFB, MA 01731-2119" Block 10-13: Initial submittal due 30 days prior to FDR Second submittal due 30 days after FDR Block 4: Contractor Format Acceptable-Prefer Standard MS Office Products <u>MSSP Expectations:</u> <ul style="list-style-type: none"> Contractor shall develop, in collaboration with the Government, an MSSP MSSP that integrates M&S within program planning and execution activities across all function disciplines. The MSSP shall include the following: <ul style="list-style-type: none"> Detailed description of the use and reuse of contractor, Government, and shared M&S tools and facilities throughout system's lifecycle. Plan shall describe the development and use of a Distributed Product Description (DPD) for the E-10A program. <ul style="list-style-type: none"> E-10A and related system and function-specific characteristics data in input-ready format for EADSIM and other agreed-upon contractor tools. Government requests model outputs, test plans, operator surveys and event summary logs in agreed-to formats. 						a. ADDRESSEE		b. COPIES				
						ESC/MA		1		2		
						ESC/MAK*		*		*		
DCMA		1		1								
* Ltr Only												
15. Total		2		3								

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

G. PREPARED BY
BRIGITTE DARTON, DMO, ESC/USK
Brigitte Darton


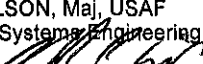
H. DATE
11 July 2003

I. APPROVED BY
MARK P. WILSON, Maj, USAF
Chief, MC2A Systems Engineering
ESC/MAAS *[Signature]*

J. DATE
11 July 2003

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)						Form Approved OMB No. 0704-0188							
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D. SYSTEM/ITEM MC2A/BMC2			E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR								
1. DATA ITEM NO. D009		2. TITLE OF DATA ITEM Management Plan			3. SUBTITLE Modeling and Simulation Support Plan								
4. AUTHORITY (Data Item Description No.) DI-MGMT-80004/T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/MA								
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED C		10. FREQUENCY See Block 16		12. DATE OF FIRST SUBMISSION See Block 16							
8. APP CODE A		11. AS OF DATE See Block 16		13. DATE OF SUBSEQUENT SUBMISSION See Block 16		14. DISTRIBUTION							
						<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">b. COPIES</th> </tr> <tr> <td style="text-align: center;">a. ADDRESSEE</td> <td style="text-align: center;">DRAFT FINAL</td> </tr> <tr> <td></td> <td style="text-align: center;">Reg Repr o</td> </tr> </table>		b. COPIES		a. ADDRESSEE	DRAFT FINAL		Reg Repr o
b. COPIES													
a. ADDRESSEE	DRAFT FINAL												
	Reg Repr o												
16. REMARKS <ul style="list-style-type: none"> ▪ Plan shall describe development of an E-10A digital system model complaint w/ DoD High-Level Architecture for mission-level sims ▪ Plan shall describe the use of system architecture models integrated with Government's operational architecture models for BMC2 functions involving H/W, S/W, and operator behaviors. <p>MSSP Expectations (continued):</p> <ul style="list-style-type: none"> ▪ E-10A MSSP shall address the Air Force Electronic System Center's C4ISR Enterprise MSSP <ul style="list-style-type: none"> • Request collaborative Government and contractor action to ensure consistency between ESC C4ISR Enterprise modeling and simulation planning across the C2 constellation. ▪ MSSP shall address the use of the Joint Synthetic Battlespace (JSB)/Joint Distributed Engineering Plant (JDEP) as appropriate during the E-10A development lifecycle. <p>Block 14: For electronic submittal information, refer to CDRL General Instructions, Paragraph 16.</p>													
15 Total													
G. PREPARED BY BRIGITTE DARTON, DMO, ESC/JSK <i>Brigitte Darton</i>			H. DATE 11 July 2003		I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS <i>[Signature]</i>		J. DATE 11 July 2003						

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D. SYSTEM/ITEM MC2A/BMC2			E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR						
1. DATA ITEM NO. D010		2. TITLE OF DATA ITEM Data Accession List (DAL)/ Internal Data			3. SUBTITLE						
4. AUTHORITY (Data Item Description No.) DI-MGMT-81453/T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/MA						
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED C		10. FREQUENCY Monthly		12. DATE OF FIRST SUBMISSION See Block 16					
8. APP CODE N/A		11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION See Block 16		14. DISTRIBUTION					
16. REMARKS Block 4: DD Form 1664, Block 10, is tailored as follows: - Each successive submission shall contain a cumulative list of work generated - Contractor format acceptable. Block 9: Distribution Statement C: "Distribution Authorized to U.S. Government Agencies and their Contractors (Administrative or Operational use) 21 requests for this document shall be referred to 75 Vandenberg Dr., Hanscom AFB, MA 01731-2119" Block 12-13: Initial submittal due on the 15th day of the 1st calendar month after contract award; subsequent submittals due the 15th day of each calendar month thereafter. Block 14: For electronic submittal information, refer to CDRL General Instructions. Paragraph 16.						a ADDRESSEE		b COPIES			
						DRAFT		FINAL			
								Reg		Repr o	
						ESC/MA		1		2	
						ESC/MAK*		*		*	
						DCMA		1		1	
						* Ltr Only					
						15. Total		2		3	
G. PREPARED BY BRIGITTE DARTON, DMO, ESC/JSK 			H. DATE 11 July 2003		I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS 		J. DATE 11 July 2003				

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D. SYSTEM/ITEM MC2A/BMC2			E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR				
1. DATA ITEM NO. D011		2. TITLE OF DATA ITEM Integrated Master Schedule (IMS)			3. SUBTITLE				
4. AUTHORITY (Data Item Description No.) DI-MISC-81183A/T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/MA				
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED C	10. FREQUENCY Monthly	12. DATE OF FIRST SUBMISSION See Block 16	14. DISTRIBUTION				
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						DRAFT		FINAL	
						Reg	Repr o		
16. REMARKS Block 4: DD Form 1664, Block 10, is tailored as follows: <ul style="list-style-type: none"> - Electronic delivery required; Microsoft Office compatible; e.g., <ul style="list-style-type: none"> -- Delivery via on-line access to Contractor's www site -- Paper or alternative electronic delivery will be acceptable until functioning. Web access to be determined by MAA - Contractor format acceptable.. - Add: Program schedules will be based on Contractor's internal schedule and WBS elements utilizing MIL-HDBK-881 as a guide. The Contractor shall portray: <ul style="list-style-type: none"> a) The phases, major milestones, and major segments of the production activities necessary to accomplish program objectives; b) The significant program progress made by the Contractor between enable adequate visibility and timely execution of the program. the events shall address those elements down to the fourth (4th) level of the identified in SOO para 2.6.3 with interrelationships and time-phased program to meet the required schedules; c) The program schedule will contain a firm baseline for each task and a line indicating current schedule information; d) If an option(s) is exercised, effort shall be included. 					ESC/MA		0	2	
					ESC/MAK		0	1	
					ESC/MAX		0	1	
					15 Total		0	3	

G. PREPARED BY BRIGITTE DARTON, DMO, ESC/JSK 		H. DATE 11 July 2003		I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS 		J. DATE 11 July 2003	
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D. SYSTEM/ITEM MC2A/BMC2		E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR		
1. DATA ITEM NO. D011	2. TITLE OF DATA ITEM Integrated Master Schedule (IMS)			3. SUBTITLE		
4. AUTHORITY (Data Item Description No.) DI-MISC-81183A/T		5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/MA		
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					DRAFT	FINAL
					Reg	Repr o
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G. PREPARED BY BRIGITTE DARTON, DMO, ESC/JSK <i>Brigitte Darton</i>		H. DATE 11 July 2003	I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS <i>Mark P. Wilson</i>		J. DATE 11 July 2003	

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D. SYSTEM/ITEM MC2A/BMC2			E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR		
1. DATA ITEM NO. D012	2. TITLE OF DATA ITEM System Safety Hazard Analysis Report				3. SUBTITLE		
4. AUTHORITY (Data Item Description No.) DI-SAFT-80101B/T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/MA		
7. DD 260 REQ LT	9. DIST STATEMENT REQUIRED C	10. FREQUENCY See Block 16	12. DATE OF FIRST SUBMISSION See Block 16	14. DISTRIBUTION			
8. APP CODE N/A		11. AS OF DATE See Block 16	13. DATE OF SUBSEQUENT SUBMISSION See Block 16	a. ADDRESSEE	b. COPIES		
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				ESC/MAK*	*	*	
				DCMA	0	1	
				* Ltr Only			
G. PREPARED BY BRIGITTE DARTON, DMO, ESC/JSK <i>Brigitte Darton</i>			H. DATE 11 July 2003		I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS <i>Mark P. Wilson</i>		J. DATE 11 July 2003

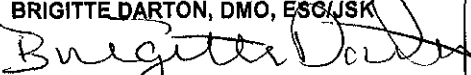
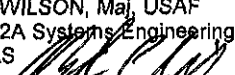
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D. SYSTEM/ITEM MC2A/BMC2			E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR			
1. DATA ITEM NO. D013	2. TITLE OF DATA ITEM Safety Assessment Report				3. SUBTITLE			
4. AUTHORITY (Data Item Description No.) DI-SAFT-80102B/T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/MA			
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED C	10. FREQUENCY See Block 16	12. DATE OF FIRST SUBMISSION See Block 16	14. DISTRIBUTION				
8. APP CODE N/A		11. AS OF DATE See Block 16	13. DATE OF SUBSEQUENT SUBMISSION See Block 16	a. ADDRESSEE		b. COPIES		
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				ESC/MAK*		*	*	
				DCMA		0	1	
				* Ltr Only				
				15. Total		0	3	0
G. PREPARED BY BRIGITTE DARTON, DMO ESC/JSK <i>Brigitte Darton</i>			H. DATE 11 July 2003		I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS <i>[Signature]</i>		J. DATE 11 July 2003	

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1. DATA ITEM NO. D014	2. TITLE OF DATA ITEM Health Hazard Assessment Report			3. SUBTITLE		
4. AUTHORITY (Data Item Description No.) DI-SAFT-80106B/T		5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/MA		
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED C	10. FREQUENCY See Block 16	12. DATE OF FIRST SUBMISSION See Block 16	14. DISTRIBUTION		
8. APP CODE A	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION See Block 16	a. ADDRESSEE	b. COPIES		
				DRAFT	FINAL	
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				ESC/MAK*	*	*
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				* Ltr Only		
15. Total				0	3	
G. PREPARED BY BRIGITTE DARTON, DMO, ESC/JSK <i>Brigitte Darton</i>		H. DATE 11 July 2003	I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS <i>Mark P. Wilson</i>		J. DATE 11 July 2003	

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)						Form Approved OMB No. 0704-0188	
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A. CONTRACT LINE ITEM NO. 0003 and 0015 (Reserved)		B. EXHIBIT D		C. CATEGORY: TDP TM OTHER X			
D. SYSTEM/ITEM MC2A/BMC2			E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR		
1. DATA ITEM NO. D015	2. TITLE OF DATA ITEM Radiation Hazard Control Procedures				3. SUBTITLE		
4. AUTHORITY (Data Item Description No.) DI-SAFT-80184A/T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/MA		
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED C	10. FREQUENCY See Block 16	12. DATE OF FIRST SUBMISSION See Block 16	14. DISTRIBUTION			
8. APP CODE A		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION See Block 16	a. ADDRESSEE	b. COPIES		
					DRAFT	FINAL	
						Reg	Repr o
16. REMARKS Block 4: DD Form 1664, Block 10, is tailored as follows: - Contractor format acceptable. Block 9: Distribution Statement C: "Distribution Authorized to U.S. Government Agencies and their Contractors (Administrative or Operational use) 21 requests for this document shall be referred to 75 Vandenberg Dr., Hanscom AFB, MA 01731-2119" Blocks 10-13: Deliver 60 days prior System TRR Updates as required Block 14: For electronic submittal information, refer to CDRL General Instructions, Paragraph 16.				ESC/MA	0	2	
				ESC/MAK*	*	*	
				DCMA	0	1	
				* Ltr Only			
				15. Total			
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D. SYSTEM/ITEM MC2A/BMC2		E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR		
1. DATA ITEM NO. D016	2. TITLE OF DATA ITEM Failure, Mode, Effects Criticality Analysis (FMECA) Report			3. SUBTITLE		
4. AUTHORITY (Data Item Description No.) DI-ILSS-81495/T		5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/MA		
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED C	10. FREQUENCY See Block 16	12. DATE OF FIRST SUBMISSION See Block 16	14. DISTRIBUTION		
8. APP CODE N/A		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION See Block 16	a. ADDRESSEE	b. COPIES	
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D. SYSTEM/ITEM MC2A/BMC2			E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR		
1. DATA ITEM NO. D020	2. TITLE OF DATA ITEM Technical and Management Work Plan				3. SUBTITLE Obsolescence/DMS Management Plan		
4. AUTHORITY (Data Item Description No.) DI-MGMT-81117/T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/MA		
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED C	10. FREQUENCY See Block 16	12. DATE OF FIRST SUBMISSION See Block 16	14. DISTRIBUTION			
8. APP CODE A		11. AS OF DATE See Block 16	13. DATE OF SUBSEQUENT SUBMISSION See Block 16	a. ADDRESSEE	b. COPIES		
					DRAFT	FINAL	
						Reg	Repr
16. REMARKS Block 4: Contractor Format Acceptable Delete 10.2.1, 10.2.2, 10.2.4, 10.2.6, 10.2.8 Blocks 10-13: First submission 15 days prior to FDR Second submission 30 days prior to FCA/PCA Block 9: Distribution Statement C: "Distribution Authorized to U.S. Government Agencies and their Contractors (Administrative or Operational use) 21 requests for this document shall be referred to 75 Vandenberg Dr., Hanscom AFB, MA 01731-2119" Block 14: For electronic submittal information, refer to CDRL General Instructions, Paragraph 16.				ESC/MA	1	2	
				ESC/MAK*	*	*	
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D. SYSTEM/ITEM MC2A/BMC2			E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR				
1. DATA ITEM NO. D023		2. TITLE OF DATA ITEM Scientific and Technical Reports			3. SUBTITLE SYSTEM SECURITY AUTHORIZATION AGREEMENT (SSAA)				
4. AUTHORITY (Data Item Description No.) DI-MISC-80711A/T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/MA				
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED C		10. FREQUENCY See Block 16		12. DATE OF FIRST SUBMISSION See Block 16			
8. APP CODE N/A		11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION See Block 16		14. DISTRIBUTION			
16. REMARKS Block 4: DD Form 1664, Block 10, is tailored as follows: - See backup pages for this data item. - Format and content shall be in accordance with the DODIIS - Electronic delivery required; Microsoft Office compatible; e.g., -- delivery via on-line access to Contractor's www site; web access to be -- paper or alternative electronic delivery is acceptable for classified Block 9: Distribution Statement C: "Distribution Authorized to U.S. Government Agencies and their Contractors (Administrative or Operational use) 21 requests for this document shall be referred to 75 Vandenberg Dr., Hanscom AFB, MA 01731-2119" Block 14: For electronic submittal information, refer to CDRL General Instructions, Paragraph 16.						a. ADDRESSEE		b. COPIES	
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						ESC/MAK*		* *	
						DCMA		1 1	
						15. Total		2 3 0	
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DI-MISC-80711A/T - System Security Authorization Agreement (SSAA) backup pages

DD Form 1664, Block 10, is tailored as follows:

The System Security Authorization Agreement will be developed in accordance with the content and format requirements specified in the DoDIIS Certification and Accreditation (C&A) Guide, dated April 2001.

Appendix A, Security Requirements Trace ability Matrix (SRTM), per DODIIS C&A Guide.

Appendix B, Certification Test Procedures, per DoDIIS C&A Guide.

Appendix C, Certification Test Report/Vulnerability Assessment, per DoDIIS C&A Guide.

Appendix D, Certification/Approval to Operate/Accreditation Documents, per DoDIIS C&A Guide.

Appendix E, Trusted Facility Manual (TFM), per DoDIIS C&A Guide. The TFM shall also include information addressing the following: the incident response plan, the contingency plan, the emergency destruction procedures, the trusted recovery procedures, the maintenance provisions, any special provisions for controlled interfaces (if any), and anti-tamper mechanisms.

Appendix F, Security Features User's Guide (SFUG), shall address the proper use of security functionality as well as the security-related responsibilities of non-privileged system users, both local and remote. This information may be submitted in contractor format and may be included in other user manuals.

Appendix G, Security Concept of Operations (SECONOPS), shall graphically depict the accreditation boundary of the MC2A and all interfaces. It shall describe the application and function of system security services/components to information flows and processing threads both internal and external to MC2A. Both normal and abnormal scenarios should be covered. This information may be submitted in contractor format.

Appendix H, Key Management Plan (KMP), shall address the full range of key-related management activities (e.g., ordering, distribution, loading, compromise recovery, and revocation) for all cryptographic elements employed by the system, both GOTS and COTS. If these topics are already documented elsewhere for a given cryptographic element, incorporation of relevant information by explicit and detailed reference to existing documentation is acceptable. For all other cases, the information may be submitted in contractor format.

Form 1423, back up pages

Block 10: Frequency:

SRTM - Any changes in the contract, security requirements, or direction by the DAA may require revising the SRTM. These revisions shall be due 30 calendar days after the contractor is notified of the change.

Block 12: Date of First Submission

Draft SSAA (body) - due 90 calendar days after contract award.

Draft Appendix A: Security Requirements Trace ability Matrix (SRTM): First draft due 60 calendar days prior to SRR.

Draft Appendix B: Certification Test Procedures: First draft due 120 calendar days prior to TRR.

Draft Appendix C: Certification Test Report/Vulnerability Assessment: Quick Look Certification Test Report due 3 working days after Government-witnessed Certification Tests.

Draft Appendix D: Certification/Approval to Operate/Accreditation Documents: GFE – to be included in final SSAA.

Draft Appendix E: Trusted Facility Manual (TFM): First draft due 90 calendar days prior to FDR.

Draft Appendix F: Security Features User Guide (SFUG): First draft due 90 calendar days prior to FDR.

Draft Appendix G: Security Concept of Operations (SECONOPS): First draft due 60 calendar days prior to IDR.

Draft Appendix H: Key Management Plan (KMP): First draft due 30 days prior to IDR.

Block 13: Date of Subsequent Submission

SSAA (body): Updated SSAA (body) due 30 days after receipt of Government comments. Revisions due 60 days prior to IDR and 60 days prior to FDR. Final SSAA, including ALL attachments and appendices, due 60 days after DAA approval.

D023

Appendix A: Security Requirements Trace ability Matrix (SRTM): Updated SRTM due 30 days after receipt of Government comments. Base lined SRTM due 30 days after completion of SRR.

Appendix B: Certification Test Procedures: Final due 30 days prior to conduct of Certification Tests.

Appendix C: Certification Test Report/Vulnerability Assessment: Final due 30 calendar days after completion of Certification Tests.

Appendix D: Certification/Approval to Operate/Accreditation Documents: GFE – to be included in final SSAA.

Appendix E: Trusted Facility Manual (TFM): Updated TFM due 60 days prior to TRR. Final TFM due at time of Certification Tests.

Appendix F: Security Features User Guide (SFUG): Updated SFUG due 60 days prior to TRR. Final due at time of Certification Tests.

Appendix G: Security Concept of Operations (SECONOPS): Updated SECONOPS due 30 days prior to FDR. Final due 30 days prior to TRR.

Appendix H: Key Management Plan (KMP): Updated KMP due 30 days prior to FDR. Final due 30 days prior to TRR.

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D. SYSTEM/ITEM MC2A/BMC2		E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR				
1. DATA ITEM NO. D024	2. TITLE OF DATA ITEM Software Design Document			3. SUBTITLE				
4. AUTHORITY (Data Item Description No.) DI-IPSC-81435A/T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/MA			
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED C	10. FREQUENCY See Block 16	12. DATE OF FIRST SUBMISSION See Block 16	14. DISTRIBUTION				
8. APP CODE A		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION See Block 16	a. ADDRESSEE		b. COPIES		
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						FINAL		
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16. REMARKS Block 4: DD Form 1664, Block 10, is tailored as follows: - See Backup Page for this data item. - Contractor format acceptable. - Electronic delivery required; Microsoft Office compatible; e.g., -- delivery via on-line access to Contractor's www site -- paper or alternative electronic delivery will be acceptable until functioning. Web access to be determined by MAA Block 9: Distribution Statement C: "Distribution Authorized to U.S. Government Agencies and their Contractors (Administrative or Operational use) 21 requests for this document shall be referred to 75 Vandenberg Dr., Hanscom AFB, MA 01731-2119" Block 12: First Submission 45 days prior to BMC2 Initial Design TIM Block 13: Final 45 days prior to FDR Block 14: For electronic submittal information, refer to CDRL General Instructions, Paragraph 16.				ESC/MA		1	2	
				ESC/MAK*		*	*	
				DCMA		1	1	
15. Total		2	3	0				
G. PREPARED BY BRIGITTE DARTON, DMO, ESC/JSK <i>Brigitte Darton</i>		H. DATE 11 July 2003		I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS <i>[Signature]</i>		J. DATE 11 July 2003		

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D024**Software Design Document (SDD), DID DI-IPSC-81435**

Tailor the DID as follows:

- Electronic submittal is required;
- Unified Modeling Language (UML) artifacts shall be delivered electronically in both the format native to the CASE tool used for capturing the information and in the XML Metadata Interchange (XMI) format;
- Contractor format acceptable with the following exceptions:
 - UML to be used for capturing architectural and design information;
 - UML Profile on Schedulability, Performance, and Time to be used for capturing timing and performance attributes;
 - For architectural summary-level information, contractor is encouraged to describe this on a system, rather than CSCI-level, perspective.
- Paragraph 10.3. CSCI-wide design decisions
The purpose of this paragraph is to provide an overview of the MC2A software architecture. This should allow the Government to understand the architectural, design, and idiom patterns used as well as the rationales for choosing them. This paragraph is not a complete UML design model but it should include extracts from the model, as necessary, for clarity. File format shall be Microsoft Word. Contractor is encouraged to aggregate architectural information at the system rather than individual CSCI level information. Topics that shall be covered include patterns and rationale for:
 - structure/modularity
 - distribution
 - communication
 - concurrency
 - deployment
 - security
 - fault management
 - data management
 - state/mode management
 - safety
 - user interface
 - event handling
 - synchronization
 - time management
 - startup/shutdown
- Paragraph 10.4 CSCI architectural design and 10.5 CSCI detailed design
These sections should be reorganized into two volumes.

Volume 1. Application/Web Services Developers Guide. This volume will be used by the Government to understand how new applications and web services can be integrated with the MC2A software. It shall document descriptions for the application programming interfaces (APIs) and web services. It shall also document examples of usage for each application API and web service.

Volume 2. Software Architecture and Design Blueprints

This volume will provide the Government with detailed technical blueprints for the MC2A software. Syntax of this volume shall be in the Unified Modeling Language (UML). Granularity shall be at the software class level for new and modified software, and at the interface level for COTS or reused (legacy) software.

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D. SYSTEM/ITEM MC2A/BMC2		E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR		
1. DATA ITEM NO. D025	2. TITLE OF DATA ITEM System and Sub-System Specification			3. SUBTITLE BMC2 Sub-System Specification		
4. AUTHORITY (Data Item Description No.) DI-IPSC-81431A/T		5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/MA		
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED C	10. FREQUENCY See Block 16	12. DATE OF FIRST SUBMISSION See Block 16	14. DISTRIBUTION		
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				ESC/MAK*	*	*
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D. SYSTEM/ITEM MC2A/BMC2			E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR						
1. DATA ITEM NO. D028		2. TITLE OF DATA ITEM COTS Manuals & Associated Supplemental Data				3. SUBTITLE					
4. AUTHORITY (Data Item Description No.) DI-TMSS-80527/T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/MA						
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED C		10. FREQUENCY One Time		12. DATE OF FIRST SUBMISSION See Block 16					
8. APP CODE A		11. AS OF DATE See Block 16		13. DATE OF SUBSEQUENT SUBMISSION See Block 16		14. DISTRIBUTION					
16. REMARKS Block 4: DD Form 1664, Block 10, is tailored as follows: - As applicable to software. - Delivery as commercially available; - Electronic format preferred; Microsoft Office compatible, e.g., -- Electronic manuals to be in removable media (e.g., DVD / CD) --Delivered to LiveLink Note: Air Force Technical Manual Contract Requirements (TMCR) for E-10A System, Applies – Reference TM-86-01 Dated 3-25-2003 (Attached) Excerpts from COTS Manuals applicable to the use of MC2A/WSI will be included. Block 9: Distribution Statement C: "Distribution Authorized to U.S. Government Agencies and their Contractors (Administrative or Operational use) 21 requests for this document shall be referred to 75 Vandenberg Dr., Hanscom AFB, MA 01731-2119" Blocks 11-13: Initial 30 days after FDR Final 180 days prior to System TRR Block 14: For electronic submittal information, refer to CDRL General Instructions, Paragraph 16.						a. ADDRESSEE		b. COPIES			
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						DCMA		1		1	
						LiveLink		1		1	
						15. Total		3		4 0	
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**Air Force Technical Manual Contract Requirements (TMCR)
For**

E-10A System

(Program/Modification/Military System)

ATTACHMENT **D028-1** TO CDRL SEQUENCE NUMBER **COTS Manuals & Associated Supplemental Data – D028**

EXHIBIT **“D”** REQUEST FOR PROPOSAL/CONTRACT: **MC2A/BMC2 Contract F19628-03-C-0014** Date: **03-25-2003**

Technical Manual/Technical Order requirements contained herein have been cleared for use by OMB No. 0704-0188, 21 July 1986.

***NOTE:** Items in italics must be tailored by the TO Manager before placing the TMCR in an exhibit to the RFP, system performance specification or in the proposal technical library. The TMCR must be referenced in RFP section J. If some or all of the TO program requirements are included in RFP Section L (Instructions to Offeror), remove them from the TMCR. Delete this note prior to placing the TMCR in the RFP.*

Section 1. Technical Order (TO) Program Requirements

1.0 GENERAL

This Technical Manual Contract Requirements (TMCR) document was prepared to fully describe statement of work criteria, delivery instructions, applicable approved standards and specifications, and generic tailoring of the approved specifications and standards for the update and maintenance of technical manuals/orders for the E-10A system contract. This TMCR is applicable to all E-10A System contracts requiring Technical Orders (TOs) and/or Flight Manuals (FMs) updates and/or changes.

1.1 TECHNICAL MANUAL (TM) AVAILABILITY

It is of vital importance that complete and accurate technical manuals be available when any weapon system/equipment is placed into service. This includes TMs for the repairable components and support equipment of any system or end item. The term technical manual used throughout this document is the generic term that includes technical data, technical manual data, R&D technical manuals, commercial technical manuals, manufacturers initial handbooks, technical orders, Flight Manuals, and related technical publications regardless of the method of presentation.

1.2 TM INTENDED USE

Technical manuals updated and maintained in accordance with this document are the only official medium for disseminating technical information, instructions and safety procedures for the operation, training, installation, maintenance, production or modification of Air Force equipment and materials delivered under this contract.

1.3 FORMAT

Technical manuals shall be developed in Digital/printable format including flight manuals to the existing Air Transport Association (ATA) specification 2100 or higher style and format unless otherwise specifically addressed in this document or as directed by the TOMA/FMM.

1.4 Copyrights and Proprietary Data.

It is the government's desire to develop commercially formatted technical orders for the final configuration of the E-10A aircraft utilizing the commercial manuals delivered with the green aircraft as a source of data. The objective is to obtain a royalty-free, non-exclusive license to use, modify, reproduce, release or disclose the technical data in whole or part to accomplish the goal. The contractor shall propose an appropriate data rights clause within the response to achieve this objective and/or identifying any barriers or additional costs to the program for the obtainment of such a license.

1.5 CONTENT, PREPARATION AND DELIVERY

E-10A technical manuals identified in this document shall be updated, maintained, and delivered to the Government during the course of this contract. Technical Manual updates shall be prepared in accordance with the appropriate detail specification(s), cited in Section 2 and tailored in Section 3. If a later issue of a later revision or amendment of the specification/standard is available when the contractor starts preparation of a manual, such issue may be used if no additional cost is involved, the schedule is not impacted and the acquiring activity gives contractual approval. Contractor shall propose the Tech Manual Delivery requirements in Section 2, Part B.

1.5.1 Order of Precedence

In the event of a conflict between this text and the references herein, the text of this document shall take precedence, except that the detail specification(s) as tailored in Section 3 of this document shall govern for technical manual updates.

1.5.2 Digital Review Copies

Review material provided or delivered shall be compatible with and capable of being presented via Air Force Common Viewer (AFCV) or equivalent or as specified by the procuring agency. PTM data delivered in digital format identified in Section 2.

1.6 MANAGEMENT AND AUTHORIZATION

The Technical Order Management Agency (TOMA) is TBD. The TOMA is the acquiring activity's office authorized to coordinate, prepare or suggest changes to the technical manual requirements and distribution. Changes to technical manual requirements and distribution shall be made only with the specific approval of the Procuring Contracting Officer (PCO).

1.7 TM APPROVAL

TM update approval is accomplished through: contractor TO Quality Assurance procedures, verification and acceptance by the Government. See paragraph 10 for further details.

2 TO PROGRAM SCOPE

The contractor shall develop and deliver a complete set of digitally interactive E-10A maintenance and operational flight manuals. The maintenance manuals shall permit technicians to effectively perform organizational-level maintenance on the E-10A. All other manuals needed to support organizational level maintenance for all E-10A subsystems shall be integrated with the 767-400 airframe manuals to form one complete set of manuals. The operational manuals shall permit the E-10A flight crew to safely operate all E-10A systems in-flight to include the Prime Mission Equipment (PME) radar subsystems. All data for the E-10A System shall be viewable and functional on the Air Force Common Viewer (AFCV) or equivalent and hosted and viewable on the E-10A aircraft and mission computer network. Data shall be digitally developed in a hyper-linking Web-browser type environment using structured SGML-tagging schemas.

The contractor shall tailor and update Section 2 to propose the TO types (Table 1) and source data, TO updates and commercial manuals (Table 2) required to support the E-10A program's objectives. The contractor may propose use of Non-Government Specifications or Standards (NGS) for development of TOs, but must justify this choice based on life-cycle cost savings to the government and compatibility with existing systems identified in the GCO and the System Support Plan.

2.1 Application to Subcontractors/Vendors. The prime contractor shall ensure that all applicable TM requirements of this contract are levied on all subcontractor or vendors. The prime contractor shall ensure that subcontractor/vendors shall furnish operation and maintenance information applicable to the equipment being acquired, including changes and/or revisions, for inclusion of such information in the applicable operation instruction (e.g. flight manual) and maintenance instruction manual(s) for the weapon system/equipment in which the equipment is installed. When a subcontractor is to prepare weapon system TMs, i.e., engine maintenance or test, the prime contractor shall supply required interface data.

3. Commercial Manuals. Contractor may propose the use of existing ancillary commercial manuals to the maximum extent possible without impairing program support objectives. The proposal

will describe the method used to recommend and submit specific manuals to the government for review and approval. **NOTES:** a) Contractor Furnished Aeronautical Equipment/Contractor Furnished Equipment (CFAE/CFE) Notices, Data Item Description (DID) DI-TMSS-80067, may be used to provide recommendation data. b) The government will use MIL-HDBK-1221 as a guide for review and acceptance of all recommended commercial manuals, and MIL-PRF-7700 as an additional guide for commercial Flight Manual contents.

4. Technical Manual Specifications and Standards (TMSS) Tailoring. TMSS are tailored by deleting requirements not needed for program TOs, and by selecting between options offered. The Contractor shall tailor the applicable TMSSs and record changes in SIRs and add them to Section 3 of this document. AF options in some Joint-Service TMSS have been documented in preliminary SIRs included in Section 3. Contractor shall complete tailoring of the Joint-Service TMSS SIRs and provide recommended SIRs for other TMSS or NGS as applicable. Questions and conflicts with TMSS requirements may be resolved by written request and justified suggestions for resolution submitted through the PCO to ESC/MAT. Approved recommendations, corrections and clarifications will be maintained with contract documentation. Tailoring must not change or delete mandatory requirements which are part of the Document Type Definition (DTD) structure.

5. Subsequent TO/Data Requirements. Contractor shall propose a process for notifying the government when additional TO or source data requirements are identified subsequent to contract award. This process shall require government review and approval of recommended additional requirements prior to contractual approval. The recommended notification process is to use CFAE/CFE Notices (DI-TMSS-80067).

6. E-10A TO Development. The contractor shall propose TO development practices and procedures that ensure TOs and data are compatible with the Technical Order Concept of Operations (CONOPS) defined at <https://www.afmc-mil.wpafb.af.mil/HQ-AFMC/EN/TOVision/toconops.htm>.

NOTE: All technical data shall be delivered as non-proprietary with a Tag Description Table (TDT), SGML Tagged Instance, and the applicable DTD's.

6.1. All E-10A TO SGML Tagged Instances shall be produced in non-proprietary format, delivered and printable using Standard Generalized Markup Language (SGML) according to the DTD's referenced in the Section 2 Table 1. All DTD's shall be compatible with the Air Force Common Viewer (AFCV) or equivalent and used as specified. Before developing any DTDs, the acquiring activity shall contact MSG/MMF for pre-approval. New DTD's shall not be developed in lieu of existing DTDs, including those for legacy TMSS. DSS submitted and approved in execution of the contract shall become the property of the Government. Questions about the application of SGML tagging to digital TO files can be directed to sgmlsupport@wpafb.af.mil.

6.2. SGML-tagged TO files shall include required illustration files in an approved graphics exchange format. Acceptable formats are: a.) CALS Group 4 Raster, b.) CGM Level 1-4 Vector Graphics (see "Graphics Guidelines" under "Vital Information" on the IDE TMSS/SGML web page (<http://www.pdsm.wpafb.af.mil/tmss/index1.html>)). See TO 00-5-3 for additional guidance. All graphics shall be viewable on and printable from the AFCV or equivalent. Illustration files developed and delivered for other purposes shall be used in lieu of developing special TM illustration files whenever possible.

6.3. A first article test sample of each TO type shall be forwarded to MSG/MMF for testing to verify that the digital TO files meet minimum AF standards. First article testing should be repeated whenever new DSS or DTD versions are used for TO development.

7. **E-10A TO Numbering.** Contractor shall propose a method for notifying the government of which manuals require TO numbers. TO numbers are not required for manuals to be used exclusively by contractor personnel. (**NOTE:** DI-TMSS-80067 may be used to provide the notification.) AF procedures for numbering TOs are described in TO 00-5-3 and AFMCMAN 21-1 (<http://www.pdsm.wpafb.af.mil/toprac/to-syste.htm>).

8. **Data Rights.** Government rights in data are specified in the Defense Federal Acquisition Regulation Supplement (DFARS), paragraphs 227-7102 through 227-7104. Contractor shall propose Unlimited Rights for all source data and TOs delivered under this contract. Proposed commercial manuals should be provided with at least GPLR or Limited Rights. Copyrights shall be according to DFARS paragraphs 227-7103, 7105 or 7106.

9. **Classification, Distribution, Destruction, Disclosure, and Export Control Notices.** Contractor shall propose methods for determining; marking and controlling classified and restricted distribution data and TOs. Processes must conform to government requirements specified in DODD 5230.24, AFIs 31-401 and 61-204, and MIL-STD-38784. **NOTE:** Distribution limitations are normally determined on a case-by-case basis as TOs are developed, dependent upon TO content.

10. **TO Quality.** Contractor shall implement a quality assurance program which ensures TOs prepared are: a) 100% technically accurate; b) written to a scope and depth of coverage sufficient to support the operations and maintenance concepts, c) compatible with the AFCV; and d) properly classified and marked with export control and distribution limitation statements. QA methods for newly developed data shall include actual performance of procedures and use of desktop analysis for non-procedural data. For E-10A data carried-over from commercial sources, the Contractor shall perform tabletop validations. Simulation (walk-through/talk-through) should be reserved for those procedures, which would activate explosive devices or present a hazard to personnel or equipment.

10.1. **Conferences and Technical Reviews.** Contractor shall propose sufficient conferences and reviews to allow insight into TO development processes and ensure contract compliance. Contractor shall host an initial Guidance Conference or Technical Interchange Meeting (TIM) within 60 days of contract award to ensure mutual understanding of TO contract requirements, schedules, points of contact, etc. The Contractor shall host 35%/80% In-Process Reviews (IPRs) and adequate Prepublication Reviews (PPR) to ensure TOs are being developed according to contract requirements and that open discrepancies are cleared prior to publication. Contractor shall provide advanced copies of IPR data and necessary source data (including engineering data) a minimum of five business days prior to the IPR date.

10.2. **TO Certification.** Contractor shall propose their method for documenting certification that TO procedures are accurate, adequate, current, and usable for their intended purposes. Contractor QA shall be witnessed by government personnel. Adequate notification shall be provided to the TOMA in advance for all QA efforts. Whenever possible a combined Contractor QA and Government Verification is preferred. The contractor shall complete all QA requirements and correct TM data errors discovered during validation efforts.

10.3. Under Acquisition Reform, the contractor is responsible for the end result of the TO development process; that is, for **adequate, safe and accurate** TOs which **conform** to government requirements. The data must be fully **compatible in depth and scope** with the established maintenance concept and the approved logistics support plan. The data must be **checked** for **security classification, distribution restrictions, and RGL**. The contractor might use any or all of the previously mentioned procedures as part of the TO QA

management process. The contractor shall provide a Quality Assurance and Government Verification plan and schedule to be approved by the TOMA.

10.4. Verification Support. Contractor shall support the government's verification of all data by recommending the methods, equipment and personnel required to support government TO Verification. All verifications shall be done using the final delivered media and hardware.

- 10.4.1** The inability to verify certain specific maintenance procedures, such as aircraft wing or vertical stabilizer removal and replacement shall not delay formalization and distribution of TO's. If a partly verified TO is issued, it shall include a Verification Status Page (VSP), and the first field unit required to use an unverified procedure will perform verification according to TO 00-5-1. Other reasons for issuing partly verified TO's include lack of equipment or other required support to perform verification or the destructive nature of the procedures.
- 10.4.2** Verification is accomplished in accordance with the Technical Order Verification Plan (TOVP) using PTO's provided by the contractor. The TO Manager is responsible for keeping the TOVP updated and coordinated throughout the verification effort.
- 10.4.3** Contractor shall support the verification effort consisting of a minimum of a technical writer and/or engineer. This support is required to minimize delays and document proposed changes to the manuals. If verification is accomplished at the Contractor's site the contractor shall provide all necessary GFE/CFE, GFP/CFP, required to accomplish verification. Contractor shall incorporate all Air Force approved verification comments
- 10.4.4** The verification schedule must be prioritized based on critical operational and maintenance tasks that affect safety, operational readiness and supportability of the system and commodity during initial deployment. Personnel, hardware, consumables and support equipment will be scheduled to ensure they are available for each verification effort.
- 10.4.5 Combining Contractor QA and Verification.** Contractor and Air Force QA programs may be combined when the following conditions exist and the option is approved by the SM and using command:

NOTE

Before joint performance of procedures, the question of liability for damage to equipment or injury to personnel should be resolved between the contractor and the government. The government position should be that the contractor is responsible for any damages or injuries caused by following faulty procedures. During the combined effort, a negotiation process should be established to resolve and document any disputes over liability. If necessary, request assistance from the Contract Law Office.

- 10.4.5.1.** A negotiated liability clause must be established prior to any combined QA effort.
- 10.4.5.2.** Tasks should be reviewed for the complexity and hazardous nature of the procedures. Highly complex or hazardous procedures should be QA'd by the contractor prior to delivery for verification. Each case must be evaluated, agreed upon by the SM, and using command.
- 10.4.5.3.** Using command personnel will perform the TO Procedures with the guidance and assistance of contractor technicians.

10.4.5.4. All procedures shall be in final deliverable format.

10.5. First Article Testing (FAT). An in-work sample of each type of SGML-tagged TO file shall be forwarded to MSG/MMF and or an ESC compliance office concurrent with the IPR, to verify compliance of the digital files to Air Force DSSs. Five percent of the digital TO files to be delivered in Indexed Portable Document Format (IPDF) shall be provided as part of the prepublication reviews to verify compliance with the Technical Order Conversion Requirements (TOCR) (http://www.pdsm.wpafb.af.mil/toconv/Tocr_r1.doc).

11. TO and Source Data Maintenance. Contractor shall propose methods for maintaining accuracy, currency and configuration of TOs and source data throughout the contract period of performance. Maintenance includes preparation of TO and source data updates to incorporate corrections, equipment configuration changes, and maintenance and operational concept changes.

12. TO Delivery. Contractor shall provide access to or delivery of digital TO files, including those for Preliminary TOs (PTOs), source data, reproduction masters, and program support data. Practices and procedures shall be compatible with the program's Contractor Integrated Technical Information Service (CITIS) agreement (if on contract) and Government Concept of Operations (GCO). TO file delivery formats shall be according to applicable CDRLs and the tailored TM Delivery Requirements Matrices included in Section 2 of this document. Paper TO delivery is not acceptable for final delivery of TOs. **EXCEPTION:** When cost analysis proves the paper delivery is more cost effective over the life cycle of the program or project, and for some Commercial Manuals not available digitally.

12.1. SGML-Tagged Files. The government will parse and compose SGML-tagged TO document files prior to acceptance and verify that content tagging has been accomplished to the levels provided in the DTD. **NOTE:** The Internet address for the public domain "SGMLS Parser" software is "<ftp://ifi.uio.no/pub/SGML>."

12.2. Indexed Adobe™ Portable Document Format (IPDF) Files. Indexing specifications for PDF TO files are contained in the Technical Order Conversion Requirements (TOCR) (http://www.pdsm.wpafb.af.mil/toconv/Tocr_r1.doc).

13. Schedules. Contractor shall include TO program events and schedules in their proposed Integrated Master Plan (IMP) and Integrated Master Schedule (IMS), and update the IMS throughout the period of performance.

Section 2. TM Type and Delivery Requirements

NOTES:

- All E-10A system TO's shall be developed using the ATA iSpec 2100 or higher to the largest extent possible. Where an ATA ispec 2100 is not applicable the corresponding Mil Spec will be used
- All data shall be delivered in a non-proprietary SGML format and be compliant with the AFCV.
- Delivery requirements are indicated in the TM Delivery Requirements matrices.
- For further information on Air Force Digital Data Strategy, see WWW address http://www.pdsm.wpafb.af.mil/datamgt/data_mgt.htm.
- *To use the fill-in boxes in the tables and matrices, double-click next to a box and change the "Default text" or "Default value" in the pop-up dialog box as required. (Delete this note prior to placing TMCR on contract.)*

PART A – TM TYPE SELECTION TABLES

TABLE 1
TMSS REQUIREMENTS FOR THE (E-10A) Program
(System/Component)

Title or Type of Manuals	Specification	Required
1. Inspection TOs	ATA ispec 2100 or higher	
a. Inspection and Maintenance Requirements (-6) Manual	DTD -XX-XXXX	<input checked="" type="checkbox"/>
b. Acceptance and Functional Check Flight (FCF) Procedures (-6CF) Manual	DTD -XX-XXXX	<input checked="" type="checkbox"/>
c. Acceptance and Functional Check Flight (-6CL) Checklist	DTD -XX-XXXX	<input checked="" type="checkbox"/>
d. Workcards	DTD -XX-XXXX	<input checked="" type="checkbox"/>
e. Inspection Requirements Cards	DTD -XX-XXXX	<input checked="" type="checkbox"/>
f. Flow/Sequence Charts	DTD -XX-XXXX	<input checked="" type="checkbox"/>
g. Checklists	DTD -XX-XXXX	
(1) Maintenance/Operations (Non-Aircrew)	DTD -XX-XXXX	<input checked="" type="checkbox"/>
(2) Operations (Aircrew)	DTD -XX-XXXX	<input checked="" type="checkbox"/>
2. Weight and Balance (Aircraft)	ATA ispec 2100 or higher	
a. Loading Data Manual	DTD -XX-XXXX	<input checked="" type="checkbox"/>
b. Sample Basic Weight Checklists	DTD -XX-XXXX	<input checked="" type="checkbox"/>
4. Flight Manuals (see notes)	ATA ispec 2100 or higher	
a. Flight Manual	DTD-FM-XXXX-XXXX-XXXX	<input checked="" type="checkbox"/>
b. Performance Data Manual	DTD-FM-XXXX-XXXX-XXXX	<input checked="" type="checkbox"/>
5. Mission Crew Manuals	ATA ispec 2100 or higher	
a. Operator Manual	DTD-FM-XXXX-XXXX-XXXX	
b. In-Flight Repair (If Applicable)	DTD-FM-XXXX-XXXX-XXXX	
c. Mission Software Users Manual	DTD-FM-XXXX-XXXX-XXXX	
6. List of Applicable Publications	MIL-PRF-8031	<input checked="" type="checkbox"/>
7. Structural Repair Manuals (for Aircraft)	ATA ispec 2100 or higher	<input checked="" type="checkbox"/>
	DTD-SRM-VERX-REVX-LEVEL2//EN	

TABLE 1
TMSS REQUIREMENTS FOR THE (E-10A) Program
(System/Component)

Title or Type of Manuals	Specification	Required
8. Training Sets (MTS) and Part Task Trainer TOs	MIL-PRF-9994 or ATA ispec 2100 or higher	
a. Single Manual		<input type="checkbox"/>
b. Single Manual w/IPB		<input type="checkbox"/>
c. General/Systems Trainer Manuals		<input type="checkbox"/>
d. General/Systems Trainer Manuals w/IPB		<input type="checkbox"/>
e. Part Task Trainer Manuals		<input type="checkbox"/>
9. Air Refueling Procedures (Mission & Flight Crew)	MIL DTL 7700G MIL-PRF-38413(Guidance) /ATA ispec 2100 (Format)	
a. Manual		<input checked="" type="checkbox"/>
b. Checklist		<input checked="" type="checkbox"/>
10. Work Unit Code Manual	MIL-PRF-38769	<input checked="" type="checkbox"/>
11. Support/Test Equipment Calibration Procedures	MIL-PRF-38793 or ATA ispec 2200	<input checked="" type="checkbox"/>
12. Time Compliance Technical Orders (TCTOs)	MIL-PRF-38804	<input checked="" type="checkbox"/>
13. Aircraft Battle Damage Assessment and Repair TOs	MIL-PRF-87158	<input type="checkbox"/>
14. Illustrated Parts Breakdown	ATA ispec 2100 or higher DTD-AIPC-VERx-REVx- LEVEL2//EN	<input checked="" type="checkbox"/>

TABLE 1
TMSS REQUIREMENTS FOR THE (E-10A) Program
(System/Component)

Title or Type of Manuals	Specification	Required
15. On-Equipment Organizational Maintenance Manual Set (see notes)	ATA ispec 2100 or higher	
a. General Equipment (GE) Manual	DTD-AMM-VERx-REVx-LEVEL2//EN	<input checked="" type="checkbox"/>
b. General System (GS) Manuals	DTD-AMM-VERx-REVx-LEVEL2//EN	<input checked="" type="checkbox"/>
c. Combined GE & GS Manual	DTD-AMM-VERx-REVx-LEVEL2//EN	<input checked="" type="checkbox"/>
d. Job Guide (JG) Manuals	DTD-AMM-VERx-REVx-LEVEL2//EN	<input checked="" type="checkbox"/>
e. Fault Reporting (FR) Manual	DTD-FRMFIM-VERx-REVx-LEVEL2//EN	<input checked="" type="checkbox"/>
f. Fault Isolation (FI) Manual	DTD-FRMFIM-VERx-REVx-LEVEL2//EN	<input checked="" type="checkbox"/>
g. Wiring Data (WD) Manual	DTD-WM-VERx-REVx-LEVEL2//EN	<input checked="" type="checkbox"/>
h. Schematic Diagram (SD) Manual	DTD-WM-VERx-REVx-LEVEL2//EN	<input checked="" type="checkbox"/>
16. Commercial Manuals (Evaluate according to MIL-HDBK-1221)		<input checked="" type="checkbox"/>
17. Aircraft Cross-servicing Guide (?????????)	MIL-DTL-22202	<input checked="" type="checkbox"/>
18. Electronic Technical Manuals (Contact specification preparing activity for guidance.)	MIL-PRF-87268 MIL-PRF-87269	<input type="checkbox"/>

TABLE 2
ADDITIONAL TM TYPE SELECTIONS

NOTES:

- Check all applicable boxes.
- For commercial manual supplemental data only, under the specification heading, enter "Same style and format," "MIL-PRF-38807" (for IPB data), or "MIL-STD-38784."
- For existing MIL-SPEC manuals not being updated to latest specification requirements, enter "Same style and format" under the specification heading.

TO Number, Title, or Type of Manual	Specification	Com- mercial Manual	Change/ Revision	Supple- ment	Supple- mental TM	Source Data
1. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PART B - TM DELIVERY REQUIREMENTS**FOR E-10A***(System/Item)***TM DATA TYPE DELIVERED _____.***(TMSS/Change/Supplement/etc.)**(Replicate form for each TM type required.)***Delivery Format Requirements Codes****P**aper (draft or manuscript only. Cannot be used for final delivery)**M**ixed paper and digital (G/I)

Digital delivery only:

G. - Standard **G**eneralized Mark-up Language (SGML).**I**. - **I**ndexed Portable Document Format (IPDF) File.**EXAMPLE:** M(G) / 2 [Paper and SGML / 2 copies]**NOTES:**

- Delivery format requirements codes indicate the media/file format to be delivered for each program event.
- TCTO requirements are specified in the contract vehicle approving the TCTO.
- When on-line access (e.g., CITIS) is a contractual requirement, copy quantity will normally be Ø (zero).

DELIVERY SCHEDULE				
Event ⇒ Number of days data required prior to event ⇒ Enter Office Symbol and Address ↓ ↓	Technical Review(s) (Days) Enter delivery requirements code/copy quantities required ↓	Verification (Days) ↓	Prepublication Review (Days) ↓	Final TO Distribution (Days) ↓
	/	/	/	/
	/	/	/	/
	/	/	/	/
	/	/	/	/
	/	/	/	/
	/	/	/	/
	/	/	/	/
	/	/	/	/
Total Copies Required:				

SECTION 3. SPECIFICATION/STANDARD INTERFACE RECORDS (SIRS)

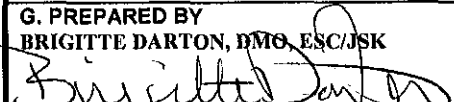

NOTES:

- Most specification "Acquisition Requirements" list the same two items for paragraphs 6.2a and 6.2b. For this contract enter:
6.2a. The title, number and date of each specification will be listed in the heading of the applicable SIR.
6.2b. The issue of the DODISS used in this contract is (enter date).
 - Tailoring out digital requirements may result in parsing failure of the delivered files. All such tailoring must be coordinated with the specification Preparing Activity (PA).
 - All TM specifications applicable to this contract require an appropriately tailored SIR attached to this section. MIL-STD-38784 must be included in all contracts/proposals for AF TMSS-developed TOs.
 - Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the DoD Single Stock Point (DODSSP) Acquisition Streamlining and Standardization Information System (ASSIST) web page, URL:
<http://www.dodssp.daps.mil/assist.htm>.
-

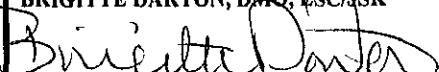
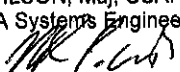
CONTRACT DATA REQUIREMENTS LIST (1 Data Item)						Form Approved OMB No. 0704-0188			
Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.									
A. CONTRACT LINE ITEM NO. 0003 and 0015 (Reserved)		B. EXHIBIT D		C. CATEGORY: TDP TM OTHER X					
D. SYSTEM/ITEM MC2A/BMC2			E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR				
1. DATA ITEM NO. D029	2. TITLE OF DATA ITEM Software Users Manuals				3. SUBTITLE				
4. AUTHORITY (Data Item Description No.) DI-IPSC-81443A/T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/MA				
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED C	10. FREQUENCY See Block 16	12. DATE OF FIRST SUBMISSION See Block 16	14. DISTRIBUTION					
8. APP CODE A		11. AS OF DATE See Block 16	13. DATE OF SUBSEQUENT SUBMISSION See Block 16	a. ADDRESSEE		b. COPIES			
						DRAFT		FINAL	
						Reg		Repr	
						o			
16. REMARKS Block 4: DD Form 1664, Block 10, is tailored as follows: Contractor format is acceptable - Electronic delivery required; Microsoft Office compatible; e.g., -- Delivery for review a digital format that meets TM 86-01 format -- Electronic delivery will be acceptable. Deliver to LiveLink. - Excerpts from COTS manuals applicable to the use of MC2A/WSI will included or put back (in the sum). Note: Air Force Technical Manual Contract Requirements (TMCR) for E-10A System, Applies – Reference TM-86-01 Dated 3-25-2003 (As Attached to DO028). Block 9: Distribution Statement C: "Distribution Authorized to U.S. Government Agencies and their Contractors (Administrative or Operational use) 21 requests for this document shall be referred to 75 Vandenberg Dr., Hanscom AFB, MA 01731-2119" Blocks 10-13: Initial 30 days prior to System TRR Final30 days prior to FCA/PCA Block 14: For electronic submittal information, refer to CDRL General Instructions, Paragraph 16.				ESC/MA		1	2		
				ESC/MAK*		*	*		
				DCMA		1	1		
				LiveLink		1	1		
15. Total		3	4	0					

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

G. PREPARED BY BRIGITTE DARTON, DMO, ESC/JSK 		H. DATE 11 July 2003		I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS		J. DATE 11 July 2003	
--	--	--------------------------------	--	---	--	--------------------------------	--

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)						Form Approved OMB No. 0704-0188					
Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.											
A. CONTRACT LINE ITEM NO. 0003 and 0015 (Reserved)		B. EXHIBIT D		C. CATEGORY: TDP TM OTHER X							
D. SYSTEM/ITEM MC2A/BMC2			E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR						
1. DATA ITEM NO. D030		2. TITLE OF DATA ITEM Test Plan			3. SUBTITLE						
4. AUTHORITY (Data Item Description No.) DI-NTDI-80566/T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/MA						
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED C		10. FREQUENCY See Block 16		12. DATE OF FIRST SUBMISSION See Block 16					
8. APP CODE A		11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION See Block 16		14. DISTRIBUTION					
16. REMARKS Block 4: DD Form 1664, Block 10, is tailored as follows: Ensure the subject document (Test Plan) is complimentary to the overarching E-10A TEMP and serve as a conduit (in level of detail) between the TEMP and any lower level test plans and/or individual Test Information Sheets (TIS)/ that will cover testing planned and executed during the SDD phase of the contract. Testing activities covered in this plan should include, lab tests, ground test and flight test, both at the CDT&E and SLVP level. Document should also tie operational test objectives (OT&E) if available into applicable SLVP test events. Preparation Instructions: Contractor format is acceptable; Microsoft Word or similar text tool (Adobe) should be used to maximize flexibility during review and coordination process and facilitate government commenting on subject document prior to test execution. Electronic delivery method is preferred (No Hard Copy of Test Plan is/are Required). Unclassified version can be delivered via Live-Link. Classified version can be delivered via appropriate program networks. Block 9: See General instructions, paragraph 7 Distribution Statement C: "Distribution Authorized to U.S. Government Agencies and their Contractors (Administrative or Operational use) 21 requests for this document shall be referred to 75 Vandenberg Dr., Hanscom Blocks 10-13: First submission 60 prior to BMC2 Initial Design Tim Final 30 days prior to FDR Block 14: For electronic submittal information, refer to CDRL General Instructions, Paragraph 16.						a. ADDRESSEE		b. COPIES			
						DRAFT		FINAL			
								Reg		Repr o	
						ESC/MA		1		2	
						ESC/MAK*		*		*	
DCMA						1		1			
						JTF/EN		1		1	
						15. Total		3		4	
G. PREPARED BY BRIGITTE DARTON, DMO, ESC/JSK 			H. DATE 11 July 2003		I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS- 			J. DATE 11 July 2003			

17. PRIOR GROUP
18. ESTIMATED TOTAL PRICE

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)					Form Approved OMB No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E						
A. CONTRACT LINE ITEM NO. 0003 and 0015 (Reserved)		B. EXHIBIT D	C. CATEGORY: TDP TM OTHER X			
D. SYSTEM/ITEM MC2A/BMC2		E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR		
1. DATA ITEM NO. D031	2. TITLE OF DATA ITEM Test/Inspection Report			3. SUBTITLE		
4. AUTHORITY (Data Item Description No.) DI-NTDI-80809B/T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/MA	
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED C	10. FREQUENCY See Block 16	12. DATE OF FIRST SUBMISSION See Block 16	14. DISTRIBUTION		
8. APP CODE A		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION See Block 16	a. ADDRESSEE	b. COPIES	
					DRAFT	FINAL
					Reg	Repr o
16. REMARKS Block 4: DD Form 1664, Block 10, is tailored as follows: - to include "red-lined" test procedures (as an appendix allowed) - to include redlined bench mark test scenarios for potential regression (as an appendix) Preparation Instructions: Contractor format is acceptable; Microsoft Word or similar text tool (Adobe) should be used to maximize flexibility during review and coordination process and facilitate government commenting on subject document prior to submission of final test reports. Electronic delivery method is preferred (<i>No Hard Copy of Test Reports is/are Required</i>). Unclassified version can be delivered via Live-Link. Classified version can be delivered via appropriate program networks. Block 9: See General instructions, paragraph 7. Distribution Statement C: "Distribution Authorized to U.S. Government Agencies and their Contractors (Administrative or Operational use) 21 requests for this document shall be referred to 75 Vandenberg Dr., Hanscom AFB, MA 01731-2119" Blocks 10-13: Deliver 20 days after each Test Block 14: For electronic submittal information, refer to CDRL General Instructions, Paragraph 16.				ESC/MA	1	2
				ESC/MAK*	*	*
				DCMA	1	1
				15. Total		
G. PREPARED BY BRIGITTE DARTON, DMO, ESC/MAK 		H. DATE 11 July 2003		I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS 		J. DATE 11 July 2003

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)						Form Approved OMB No. 0704-0188												
Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.																		
A. CONTRACT LINE ITEM NO. 0003 and 0015 (Reserved)		B. EXHIBIT D		C. CATEGORY: TDP TM OTHER X														
D. SYSTEM/ITEM MC2A/BMC2			E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR													
1. DATA ITEM NO. D032		2. TITLE OF DATA ITEM Test Procedures			3. SUBTITLE													
4. AUTHORITY (Data Item Description No.) DI-NTDI-80603/T			5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/MA													
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY See Block 16	12. DATE OF FIRST SUBMISSION See Block 16		14. DISTRIBUTION													
8. APP CODE A	C	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION See Block 16		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2">a. ADDRESSEE</th> <th colspan="3">b. COPIES</th> </tr> <tr> <th>DRAFT</th> <th colspan="2">FINAL</th> </tr> <tr> <td></td> <td></td> <th>Reg</th> <th>Repr o</th> </tr> </table>			a. ADDRESSEE	b. COPIES			DRAFT	FINAL				Reg	Repr o
a. ADDRESSEE	b. COPIES																	
	DRAFT	FINAL																
		Reg	Repr o															
16. REMARKS <p>Block 4: Tailoring of DD 1664 as follows: Preparation Instructions: Contractor format is acceptable; Microsoft Word or similar text tool (Adobe) should be used to maximize flexibility during review and coordination process and facilitate government commenting on subject document prior to test execution. Electronic delivery method is preferred (No Hard Copy of Test procedures is/are Required). Unclassified version can be delivered via Live-Link. Classified version can be delivered via appropriate program networks.</p> <p>Block 9: Distribution Statement C: "Distribution Authorized to U.S. Government Agencies and their Contractors (Administrative or Operational use) 21 requests for this document shall be referred to 75 Vandenberg Dr., Hanscom AFB, MA 01731-2119"</p> <p>Blocks 10-13: Deliver 60 days prior to each TRR</p> <p>Block 14: For electronic submittal information, refer to CDRL General Instructions, Paragraph 16.</p>					ESC/MA		1	2										
					ESC/MAK*		*	*										
					DCMA		1	1										
					15 Total		2	3	0									

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

G. PREPARED BY
BRIGITTE DARTON, DMO, ESC/JSK

H. DATE
11 July 2003

I. APPROVED BY
MARK P. WILSON, Maj, USAF
Chief, MC2A Systems Engineering
ESC/MAAS

J. DATE
11 July 2003

Software Product Specification DI-IPSC-81441

Tailor the DID as follows:

- Electronic submittal is required;
- Contractor format acceptable;
- Paragraph 10.1 Scope. Information shall be sufficient so that, combined with the Software Version Description, the Government is able to create an MC2A-like laboratory environment.
- Paragraph 10.5.1. Delete.
- Paragraph 10.5.4. Delete.
- Paragraph 10.6.c. Delete.
- Paragraph 10.6.d. Delete.

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)					Form Approved OMB No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.						
A. CONTRACT LINE ITEM NO. 0003 and 0015 (Reserved)		B. EXHIBIT D	C. CATEGORY: TDP TM OTHER X			
D. SYSTEM/ITEM MC2A/BMC2		E. CONTRACT/PR NO. F19628-03-C-0014		F. CONTRACTOR		
1. DATA ITEM D034	2. TITLE OF DATA ITEM Software Version Description			3. SUBTITLE		
4. AUTHORITY (Data Item Description No.) DI-IPSC-81442A/T		5. CONTRACT REFERENCE		6. REQUIRING OFFICE ESC/MA		
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED C	10. FREQUENCY See Block 16	12. DATE OF FIRST SUBMISSION See Block 16	14. DISTRIBUTION		
8. APP CODE A		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION See Block 16	a. ADDRESSEE		b. COPIES
					DRAFT	FINAL
						Reg
						Repr
						o
16. REMARKS Block 4: See Backup Page for this data item. Block 9: Distribution Statement C: "Distribution Authorized to U.S. Government Agencies and their Contractors (Administrative or Operational use) 21 requests for this document shall be referred to 75 Vandenberg Dr., Hanscom AFB, MA 01731-2119" Blocks 12-13: Final 30 days prior to FCA/PCA Block 14: For electronic submittal information, refer to CDRL General Instructions, Paragraph 16.				ESC/MA	1	2
				ESC/MAK*	*	*
				DCMA	1	1
				15. Total	2	3
						0
G. PREPARED BY BRIGITTE DARTON, DMO, ESC/JSK <i>Brigitte Darton</i>		H. DATE 11 July 2003		I. APPROVED BY MARK P. WILSON, Maj, USAF Chief, MC2A Systems Engineering ESC/MAAS <i>Mark P. Wilson</i>		J. DATE 11 July 2003

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

D034

Software Version Description DI-IPSC-81442

Tailor the DID as follows:

- Electronic submittal is required;
- Contractor format acceptable;
- Paragraph 10.1 Scope. Information shall be sufficient so that, combined with the Software Product Specification, the Government is able to create an MC2A-like laboratory environment.

EXHIBIT E
TO
CONTRACT F19628-03-

Contract Data Requirement List (CDRL)

FOR

**Multi-Sensor Command & Control Aircraft/
Battle Management Command & Control (MC2A/BMC2)
Multiple Award Period**

11 July 2003

Prepared by:

**Multi-Sensor Command & Control Aircraft (MC2A) Weapon System Program Office
Electronic Systems Center ESC / MA
75 Vandenberg Drive – Bldg 1630
Hanscom AFB, MA 01730-2103**

EXHIBIT E
F19628-03-

MC2A/BMC2

INDEX

- A. General Instructions**
- B. Address List**
- C. Table of Contents**
- D. DD Forms 1423**

GENERAL INSTRUCTION
Contract F19628-03-

1. The attached Contract Data Requirements List (CDRL) identifies and defines the formal data deliverables for this contract. The data, which are associated with tasks delineated in the Technical Requirements Document (TRD) are deliverable under the Contract Line Item Numbers (CLINS).
 2. The following documents and regulations were used in the preparation of the CDRL, DD Form 1423, and are identified below for guidance and information purposes.
 - a. DoD 5010.12-L, DoD Acquisition Management System & Data Requirements Control (AMSDL) List.
 - b. DoD 5010.12-M, Procedures for the Acquisition and Management of Technical Data.
 - c. DoD 5230.24, 18 March 1987, Distribution Statements on Technical Documents.
 3. The contractor shall collect, prepare, and distribute the data in accordance with the CDRL or as called for by FAR and FAR supplement clauses of the contract. This will be done by the most economical method, i.e., reduce page count by printing on both sides of paper, etc., commensurate with the program needs.
 4. The data items on the CDRL are cross-reference in "Contract Reference", CDRL Block 5, to the associated Statement of Work (SOW) paragraph.
 5. The format instructions for preparation of each data item on the CDRL are given on applicable DD Forms 1664. DD Forms 1664 will be used by the contractor in fulfilling contract data requirements to the extent required by references on the CDRL. References contained in the DD Form 1664, Block 10, are contractually binding. Any comments, explanations, or limitations on an individual DD Form 1664 can be found by referring to the attached back-up sheets, or, if the tailoring is brief, by noting the comments contained in Block 16 of the CDRL referencing Block 4. In such cases, the letter "/T" (Tailored) has been suffixed to the DID number appearing in Block 4 of the CDRL format, for example (DI-A-3027/T).
- NOTE: Only the tailored applications of specifications and standards cited in the TRD are requirements for the accomplishment of tasks that result in the data reported in the CDRL. This tailoring of tasks is not repeated in the CDRL.
6. CDRL revisions will be noted on the revision sheet and also indicated on individual DD Form 1423s. Specific block changes can be identified by comparing present revision with previous entries.
 7. Approval code "A" in Block 8 of the DD Form 1423 indicates that the Air Force will provide written approval/disapproval of Contractor submissions unless otherwise stated in Block 16. The Air Force inherently has the right to disapprove any Contractor submissions even in the absence of an "A" in this block if the requirements of the DID are not met.

8. Block 9 indicates that a distribution statement in accordance with DoD 5230.24 is required. DoD 5230.24 specifies certain distribution statements to be used on technical data subject to distribution. When the applicability of DoD 5230.24 is not indicated on the CDRL, or if the Contractor determines the imposed statement is too lenient or stringent, the Contractor will solicit from or recommend to the PCO appropriate statements from DoD 5230.24 based on the nature and content of the document, before effecting primary distribution.

9. Data items requiring Material Inspection and Receiving Reports, DD Form 250, will be submitted as "ORIGINAL" only, to the Technical Office. Final delivery of applicable data items will require DD Form 250s. The "ORIGINAL" DD Form 250 will be signed by the appropriate Government authority for acceptance.

10. Submit each original letter of transmittal to the MC2A Contracting Officer as follows:

ESC/MA
Attn: MC2A Contracting Officer
75 Vandenberg Drive
Hanscom AFB, MA 01731-2119

Also, one information copy of all data transmittal letters (not documentation) shall be forwarded to ESC/MA, Attn: Data Management Officer.

11. All Contractor correspondence and all DD Forms 250 relating to the CDRL items shall clearly identify document (s) delivered, and as a minimum shall include Contract Number, CDRL Sequence Number(s), Title of Document, and revision identification. Final delivery of each item will also be annotated on transmittal document.

12. Block 14 identifies each addressee and gives the number of copies (draft, regular and reproducible) to be received by each one (for example, ESC/MA - 1/1). If reproducible copies are required, the type of reproduction requested is given here or in Block 16 (offset, mat, vellum, negative, CD/DVD, magnetic tape, etc).

13. Unless otherwise specified, the submittal date stated on the CDRL format is the required date of arrival of the data at the office specified in Blocks 6 and 14 of the DD Form 1423. Due dates falling on non-working days (Saturday, Sunday) and Government (legal) holidays shall be construed to mean the next regular working day following such non-working days. Delivery dates are also interpreted to be the dates of data arrival at the specified addresses, except as specified in Contract Special Provisions. All due dates (e.g., 30 days after contract award) are calendar-counted. For electronic data submittal, unclassified data must be delivered via Hanscom AFB Livelink on the date specified by the contract or CDRL. Receipt of data after that date will be considered delinquent.

14. Data requiring approval of the Procuring Agency as specified in the CDRL shall be approved in writing. Such approval shall be issued by the Contracting Officer, except as specified elsewhere in this contract. Data will be approved as specified in Block 16 of the DD Form 1423.

15. The Government reserves the right to approve data with comments, in which cases the Contractor shall submit change pages incorporating the Government requirements. If the comments require changes to more than 25% of the data in question, the Contractor shall submit a complete revision.

Re-submissions shall be within 30 days or within the next required submittal, unless otherwise stated by the PCO or indicated on the DD Form 1423s. The JPO will issue a single/consolidated formal set of comments/changes to CDRL data that has been submitted for review/approval.

16. CDRL ITEM ELECTRONIC SUBMITTALS: Where indicated in Blocks 14/16 of the DD Form 1423, the Contractor shall complete an electronic submission of UNCLASSIFIED CDRL items to the Hanscom AFB Livelink Document Management System. For tracking purposes, the date the CDRL item is transmitted electronically will be considered the "received" date.

Items placed on the DAL shall be provided through Northrop Grumman, Melbourne Livelink with proper markings (ie, Limited Rights, Unlimited Rights, or Restricted Rights (computer software only)). Proprietary Rights are not a proper marking. Once an item is put on the DAL, the markings should not change. The Government will have electronic access to all data placed on the DAL and will download all items into the Hanscom Livelink on a quarterly basis at which time the DAL items will be considered "delivered".

Electronic signatures will be utilized whenever possible. Until electronic signature procedures are implemented, the Contractor shall forward one (1) original hard copy of all CDRL transmittal letters to ESC/JSK.

In the unlikely event the Hanscom AFB Livelink server cannot be accessed, and the data will become delinquent as a result, the designated Hanscom AFB Livelink System Administrator or designated Data Manager will be notified of the difficulty by the Contractor via phone, fax or e-mail.

The Government will provide the Contractor with password-protected accounts on the Hanscom AFB Livelink server but will not be responsible for the cost of any dial-up connection.

The Contractor will deliver the data and associated cover letter in Microsoft Office Professional Suite's native electronic format(s) as soon as native electronic format(s) or Portable Document Format (.pdf) with image on text/text searchable.

Deliver data and associated cover letter in Microsoft Office Professional Suite's native electronic, or .pdf format in: lucid and logical order as if data were a hardcopy, readable without manipulation, legible, with Table of Contents for any data that contains attachments or appendices via Hanscom AFB Livelink Document Management System. Electronic Format Table of Contents naming method will correspond with data cover letter.

The version of Microsoft Office Professional Suite and Microsoft Project must correspond with the version currently being used by the program office. The version of Microsoft Office used by the Government is Microsoft Office Professional Suite 2000. The version of Microsoft Project used by the Government is Project 98.

No password-protected documents will be accepted. Passwords, if any, need to be removed prior to document submittal.

17. Questions regarding preparation and contents of DD Form 1423s and their

related backup sheets may be directed to the Data Manager, ESC/MA.

18. Government Responses To Contractor Delivered Data:

The Government will submit data to the Contractor via Hanscom AFB Livelink as it becomes available. Any CDRL responses sent to the Contractor that have attachments that are not in native format will be sent via hardcopy until the ability to print images is provided to the Contractor. Portable Document Format (.pdf) is acceptable. The date data is submitted to the Contractor will be the official response date of the Government. Electronic signatures will be utilized whenever possible.

ADDRESS LIST

ELECTRONIC SYSTEMS CENTER (ESC) ESC/MAK

ESC/MA, ESC/MAK
ATTN: MC2A/BMC2 Program
75 Vandenberg Drive - Bldg 1630
Hanscom AFB, MA 01731-2103.

email: first.last@hanscom.af.mil

781-377-#### dsn: 478-####

DCMA

DCMA
ATTN: MC2A/BMC2 Program
2000 W. NASA Blvd
Melbourne, FL 32904-2322

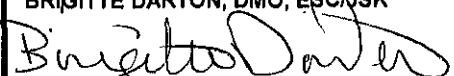
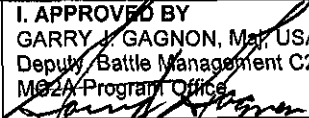
email: first.last@dcma.mil

EXHIBIT E

TABLE OF CONTENTS

CONTRACT NUMBER: F19628-03-

SEQUENCE NUMBER	DATA ITEM DESCRIPTION	TITLE/SUBTITLE
E001	DI-IPSC-81431A	BMC2 Subsystem Specification
E002	DI-MGMT-81453	Data Accession List (DAL)
E003	DI-MISC-81183A	Integrated Master Schedule (IMS)
E004	DI-MISC-80508A	Technical Report - Studies Services

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)					Form Approved OMB No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.						
A. CONTRACT LINE ITEM NO.		B. EXHIBIT E		C. CATEGORY: TDP TM OTHER X		
D. SYSTEM/ITEM MC2A/BMC2		E. CONTRACT/PR NO. F19628-03-		F. CONTRACTOR		
1. DATA ITEM NO. E002	2. TITLE OF DATA ITEM Data Accession List (DAL)/ Internal Data			3. SUBTITLE		
4. AUTHORITY (Data Item Description No.) DI-MGMT-81453		5. CONTRACT REFERENCE SOW 3.6.7		6. REQUIRING OFFICE ESC/MA		
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED C	10. FREQUENCY Monthly	12. DATE OF FIRST SUBMISSION See Block 16	14. DISTRIBUTION		
8. APP CODE N/A		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION See Block 16	a ADDRESSEE	b. COPIES	
					DRAFT	FINAL
					Reg	Repr o
16. REMARKS <p>Block 9: Distribution Statement C: "Distribution Authorized to U.S. Government Agencies and their Contractors (Administrative or Operational use) 21 requests for this document shall be referred to 75 Vandenberg Dr., Hanscom AFB, MA 01731-2119"</p> <p>Block 12-13: Initial submittal due on the 15th day of the 1st calendar quarter after contract award; subsequent submittals due the 15th day of each calendar quarter thereafter. (e.g. 15 January, 15 April, 15 July, 15 October).</p> <p>Block 14: For electronic submittal information, refer to CDRL General Instructions, Paragraph 16.</p>				ESC/MA	1	2
				ESC/MAK*	*	*
				* Ltr Only		
				15. Total	2	3
G. PREPARED BY BRIGITTE DARTON, DMO, ESC/USK 		H. DATE 11 July 2003		I. APPROVED BY GARRY J. GAGNON, Maj, USAF Deputy, Battle Management C2 IPT MC2A Program Office 		J. DATE 11 July 2003

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

STATEMENT OF WORK (SOW)

FOR

BATTLE MANAGEMENT COMMAND AND CONTROL (BMC2)
MULTIPLE AWARD PERIOD

NOTE: CDRL Exhibit E applies to this effort.

MC2A Program Office
Electronic Systems Center
Air Force Materiel Command
Hanscom Air Force Base, Massachusetts 01731

Contract: F19628-03-X-XXXX

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1.0 Scope

This Statement of Work (SOW) describes tasks for the BMC2 Multiple Award Period for Contract F19628-03-X-XXXX.

1.1 Program Overview/Objective

The purpose of this BMC2 effort is to execute the pre-Systems Design and Development (SDD) phase of the BMC2 program in the context of an MC2A system. The contractor shall produce a BMC2 functional and performance requirements allocation in the context of an MC2A system requirements baseline. This shall be accomplished in partnership with the Weapons Systems Integrator (WSI) contractor and presented to the Government in a joint WSI/BMC2 Systems Requirements Review (SRR). In addition to the requirements definition and flowdown task, this effort shall include the development and presentation of the architecture that meets the contractor's requirements baseline.

2.0 Applicable Documents

The documents of the exact issue shown below form a part of this SOW to the extent specified therein. Each document is listed by number, date, title, and tailored application.

<u>Document No. and</u> <u>Date</u>	<u>Title</u>	<u>Tailored</u> <u>Application</u>
Rev 1 09 June 03	Multi-Sensor Command and Control Aircraft Government Technical Requirements Document (GTRD)	All

3.0 Tasks/Requirements

3.1 Systems and Software Engineering Process Definition

3.1.1 Systems Engineering Master Plan (SEMP)

The contractor shall prepare and make available to the Government under the Data Accession List (DAL) no later than 30 days after contract award a SEMP that describes their systems engineering process and how this process reduces cost, schedule and performance risk on the BMC2 program. The SEMP shall also describe the relationship between their systems engineering process and the Software Engineering Institute (SEI) Capability Maturity Model Integrated (CMMI) process maturity guides. The Contractor shall describe the integrated approach to test and integration including development testing, build process, lab facilities and test tools across all elements of the team. The SEMP shall define the Cost as An Independent Variable (CAIV) and risk management processes and how these processes will be implemented in the BMC2 effort. The interaction with the WSI contractor's systems engineering/risk management process and how this partnership will result in a cohesive systems engineering approach to the pre-SDD and SDD program activities shall also be described. Other topics to be addressed shall include the approach to integration, configuration management, safety, human factors analysis and design, and the approach to defining Technical Performance Measures (TPMs).

The SEMP shall provide a plan for defining detailed Information Exchange Requirements (IERs) for all interfacing nodes. The SEMP shall also define the approach to leveraging the Joint Synthetic Battlespace (JSB)/Joint Distributed Engineering Plant (JDEP). The contractor shall also describe their use of modeling and simulation to validate requirements and engineering products during the execution of this program.

3.1.1.1 Software Development Plan

As an appendix to the SEMP, the contractor shall prepare a Software Development Plan. This plan shall describe the contractor's approach for the design, development, and test of the BMC2 software in the context of the system development and test. The software build implementation plan (i.e., incremental build approach) shall define a logical development and test approach to building the BMC2 subsystem functionality in the context of the hardware availability, COTS availability, GOTS availability and any other programmatic concerns to include funding constraints. It shall also provide the metrics and measurement approach to be used by the contractor to measure and track progress of the software program against a plan. The Software Development Plan shall include a standard for developing reusable software. It shall also describe the process for evaluating whether software is appropriate for reuse on the E-10A including a business case assessment. The Software Development Plan must describe for software reuse how cross program (and contractor to contractor) relationships will be established and managed to make reuse practical.

3.2 Cost as an Independent Variable (CAIV)

The contractor shall propose and conduct CAIV trades to include affordability in the context of the system. The contractor shall provide all recommended changes to the system requirements in the form of an updated Contractor TRD (CTRD) to be made available to the Government on the DAL no later than 30 days after contract award. This analysis will be based upon the Government's funding profile. The goal of this effort is to provide the Government with options to change the Government TRD (GTRD) threshold baseline to reduce program risk while continuing to deliver an operationally suitable system to the operational community.

3.3 System and BMC2 Architecture Definition

The contractor shall prepare and present the planned BMC2 architecture at an Architecture Meeting to be held at the contractor's facilities no later than 90 days after contract award. This definition shall be prepared using Unified Modeling Language (UML)-based diagrams, other diagrams, and summary descriptions. The contractor shall present the features of the architecture that address its sufficiency to accommodate the Spiral 1 functionality (as defined in the CTRD). The contractor shall also support the WSI in developing the system level architecture views to include subsystem architecture and interface definitions. The contractor shall participate in the review and refinement of the interface to the MP-RTIP sensor through the Interface Control Working Group.

The BMC2 architecture definition shall include the following information:

- Architecture Views:
 - Module view. Describe the large scale components and their relationships/interfaces. Describe where data is persistent. Identify where reuse is planned. Delineate components

that must be developed/modified vs. those that can be used as COTS/NDI and the impacts of these products on the architecture. For any COTS/NDI components of your BMC2 proposed solution, define all data/software rights and technical data that would be provided to the Government. Identify the hardware, operating systems, and software language(s) to be used for implementing the E-10A BMC2.

- Distribution view. Describe the planned approach for how entities will communicate across address space boundaries, including how location transparency will be achieved. Describe the approach for publish & subscribe and user profiling.
 - Concurrency view. Describe the planned approach for management of system resources to meet specified QoS. Resources include sensors, communications, networks, storage, and processing. Describe the performance measures and list the anticipated design thresholds that will indicate potential bottlenecks/overflows.
 - Fault tolerance view. Describe the planned approach for identifying, isolating, and managing faults.
 - Security view. Describe the overall approach for satisfying the E-10A security requirements. Discuss relevant threats and vulnerability, and planned countermeasures to achieve an accreditable E-10A. Graphically depict the accreditation boundary of the E-10A and all external interfaces. Include an overall security architecture, which identifies the key components and the security functionality allocated to each component. Describe the application of security services to information flows and processing threads both internal and external to E-10A.
 - Deployment view. Provide main deck layout(s) and describe the approach to provide the capability to physically reconfigure the system to support different missions. Describe the mapping of the software onto the hardware.
 - Openness. Describe where standards are planned to be used. Present a business case for situations where a non-standards based solution is planned even though a standard exists. Describe the architecture's ability to extend the processing environment vertically (e.g., by adding additional processors, networks, workstations) and horizontally (e.g., by supporting heterogeneous computing environments).
 - Software reuse. Describe the business case decisions to reuse software from other systems and describe the ability to design and make available to other systems the software designed for the E-10A.
 - Communications. Provide a communications layout including radios, antennas, LANS, ancillary equipment, signal flow, and interfaces. Describe the layered approach and standards planned for the internal and external networks. Define the number, type and location of antennas, the required minimum isolation, specific cosite mitigation equipment and configuration.
- Validation. The contractor shall validate the ability of the architecture to meet CTRD requirements in the areas described below. Validation via execution of a model of the architecture is encouraged, but not required.
- Extended tracking and identification of ground objects given feeds from on and off-board sensors

- Development of and access to a complete , coherent, and correct representation of the battlespace
- Ability to plan and control organic sensors
- Collaborative ISR Management including managing and/or controlling off-board sensors and unmanned platforms
- Ability to execute operations against Time Critical Targets involving precision munitions
- Ability to conduct Cruise Missile Defense
- Availability (to include a description of how the system would respond to various types of faults occurring in various system components)
- Achieve operational requirements under maximum system loads to include meeting spare and growth
- Provide security in allied through US only operations
- Provide flexible operations configuration capability and ability to efficiently update/change hardware
- Ability to satisfy the data storage, access and interoperability capability of Spiral 1 threshold requirements and grow to satisfy future requirements.
- Ability to meet the size, weight, power, and cooling requirement allocations for the architecture
- Provide a flexible, and extensible network (internal and external) that can be modified to add new capability and standards
- Ability to meet system-level electromagnetic compatibility (EMC) requirements
- Ability to meet co-site requirements estimating the performance parameters of all major components. Identify the necessary technology or major design changes. Address potential blockage from aircraft structures and estimate allowable separation limits on other antennas for minimizing mutual blockage and interference. Determine an overall system link budget, intra-band and inter-band cosite interference analysis.
- Supports the interoperability and activity requirements defined in the C2C Architecture version 1.2.

3.4 System Requirements Review (SRR)

The contractor shall, in a teaming arrangement with the WSI contractor and in the context of the WSI system functional baseline, prepare for and conduct the BMC2 portion of the SRR. This SRR shall be held during January 2004 at a time to be mutually agreed upon by the Government, the WSI contractor and the BMC2 contractor. The meeting will be held at the WSI contractor's facility. The purpose of the SRR is to review the contractor's interpretation and understanding of the BMC2 related system level requirements as specified in the CTRD and further documented in the draft MC2A BMC2 Subsystems Specification. Specific elements of this review shall include requirements analysis (e.g., CTRD requirements versus capability of GFE, CTRD versus C2C architecture), requirements allocation (e.g., allocation of requirements to subsystem and hardware/software, etc.), subsystem performance analysis, system to subsystem interface definitions, the identification of system requirements, the establishment of a modeling and simulation baseline approach, and the establishment of the BMC2 system level requirements verification approach. The contractor shall present an overview of the architecture and any updates that occurred since the Architecture Meeting. The contractor shall prepare and deliver to the Government no later than 20 days prior to the SRR and

in conjunction with the WSI contractor, an MC2A BMC2 Subsystem Specification that reflects the proposed Spiral 1 Threshold system allocation. The MC2A BMC2 Subsystem Specification shall contain the following:

- The contractor’s functional baseline as defined by their Spiral 1 threshold CTRD and as tailored via the CAIV trade agreements with the Government.
- A rewrite of requirements, where appropriate, to make requirements unambiguous and testable.
- Any TBDs from the GTRD shall be replaced where appropriate with the requested data.
- Identification and elimination of any task-type requirements that may have appeared in the GTRD for inclusion into the pre-SDD/SDD IMP.

The contractor, in conjunction with the WSI, shall propose and report on a set of Technical Performance Measures (TPM). This report shall be made available to the Government under the DAL. The contractor shall provide support to WSI-led trade studies in support of SRR to include studies on GATM, system level EMC, flexible system configuration and approach to long term system growth.

The contractor shall provide responses to the Government to any SRR action items no later than 20 days after the SRR.

[DI-IPSC-81431A/T]

3.5 Other Reviews and Meetings

3.5.1 SEMP/CAIV/Risk Assessment Meeting

The contractor shall hold a meeting to discuss the SEMP, the results of the CAIV trades, and the initial risk assessment, no later than 45 days after contract award. This meeting shall be conducted at the contractor’s facility and shall be held in concert with the WSI contractor to show a systems approach to these products/issues.

3.5.2 Technical Interchange Meetings (TIMs)

The contractor may hold an optional TIM to allow open interchange of technical information pertaining to the requirements and architecture development effort during the performance of this SOW. The TIM will be scheduled at a time and place mutually agreed upon by the Government, the BMC2 contractor and the WSI contractor. It will primarily be focused upon requirements definition and architecture issues but may also be used to address other pertinent technical issues as mutually agreed to by the Government and the BMC2 contractor.

3.5.3 Other Technical Interchanges

The contractor and/or the Government shall schedule ad hoc technical discussions on an as-required basis. The primary goal of these interchanges is to keep the Government informed of any technical issues pertaining to the successful accomplishment of the tasking in this SOW. These discussions will typically be held via telecon or video telecon.

3.6 Program Management

3.6.1 Program Management Office (PMO)

The contractor shall provide a PMO as a tool to manage all work in the performance of this SOW and to provide an interface to the Government.

3.6.2 Kickoff Meeting

The contractor shall conduct a kickoff meeting no later than 14 days after contract award. The purpose of this meeting shall be for the contractor to present their work plan and schedule for the accomplishment of the requirements of this Statement of Work.

3.6.3 Associate Contractor Agreements (ACAs)

The contractor shall establish an ACA with the WSI contractor within 30 days of contract award. This ACA shall establish the details of the working relationship between the WSI contractor and the BMC2 contractor for the performance of this SOW.

3.6.4 Risk Management

The contractor shall, based upon their risk management process as defined in their SEMP (ref.: paragraph 3.1.1), develop an assessment of the program risks and mitigation plans relative to the CTRD Spiral 1 threshold requirements baseline and design approach being proposed. Particular attention shall be given to the risks associated with the software development and test aspects of the program. The contractor shall prepare and deliver to the Government the initial status of high or moderate program and technical risks and mitigation plans for each of these risks no later than 30 days after contract award, and then update this assessment at the SRR and all other required meetings with the Government in this Statement of Work.

3.6.5 Government Furnished Property (GFP) Support

The contractor shall be responsible for supply and maintenance/repair support of all GFP in his possession IAW terms of Section I of this contract.

3.6.6 Cost/Schedule Management

The contractor shall employ their internal DOD 5000.2-R compliant, and Government certified Earned Value Management System (EVMS) on the performance of this contract. The contractor shall present the tools and outputs used to manage the program at the request of the Government.

3.6.7 Data Accession List (DAL)

The contractor shall prepare and submit a Data Accession List (DAL). **[DI-MGMT-81453/T]**

3.6.8 Special Studies and Analysis

The contractor shall prepare and submit analysis and reports in accordance with the tasking in this SOW. **[DI-MISC-80508A/T]**

3.6.9 Integrated Master Schedule (IMS)

The contractor shall prepare and submit an IMS for all activity pertaining to this SOW. [DI-MISC-81183A/T]